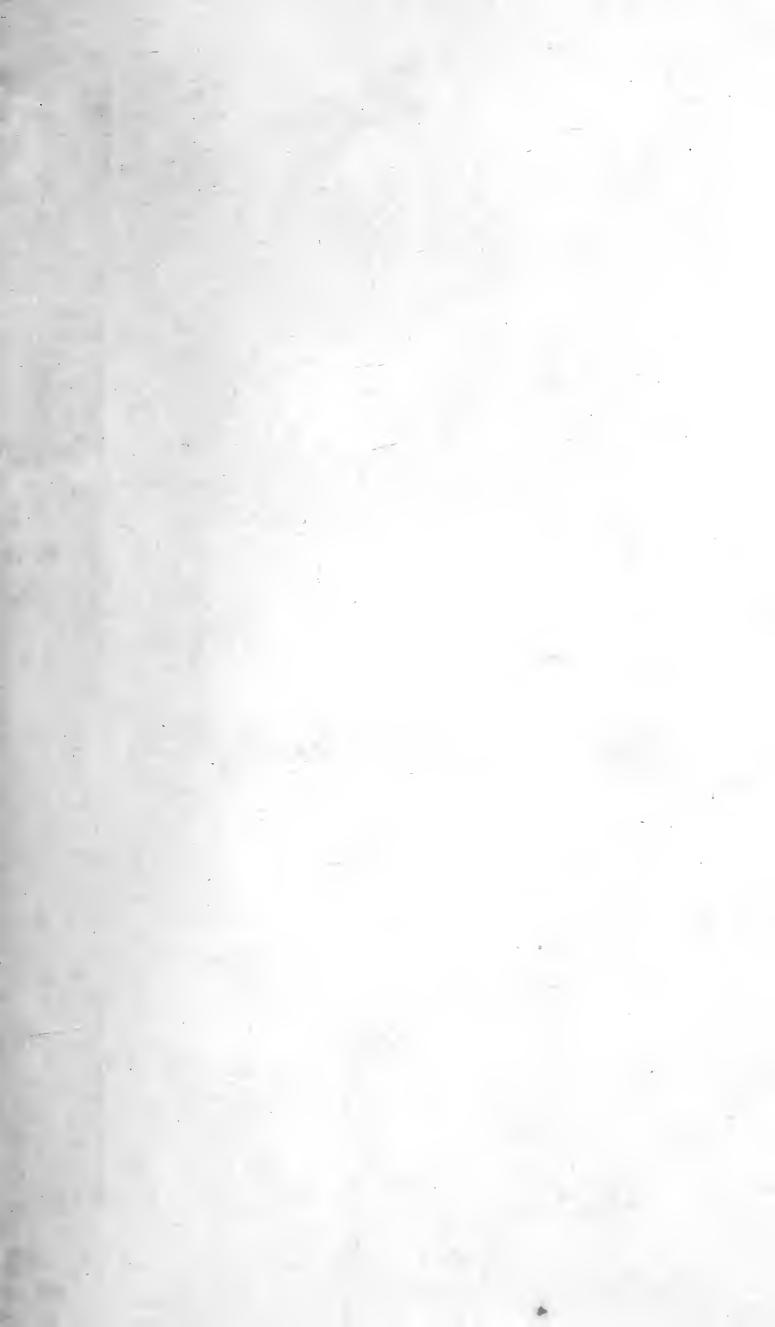
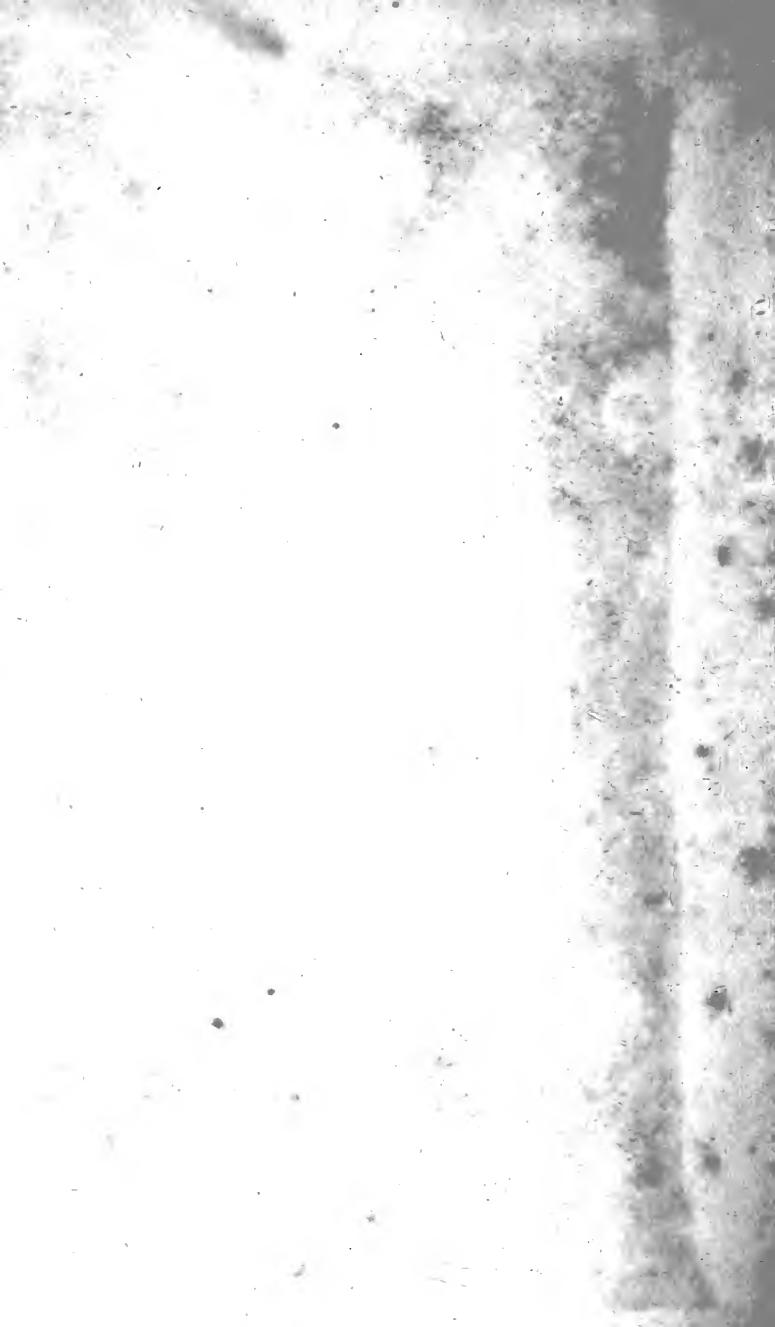




Library
of the
University of Toronto

Alfred Denny.









# BRITISH MARINE POLYZOA.

VOL. II.



## HISTORY

OF THE

# BRITISH MARINE POLYZOA.

BY

### THOMAS HINCKS, B.A., F.R.S.,

AUTHOR OF 'A HISTORY OF THE BRITISH HYDROID ZOOPHYTES,' ETC.

". . . naturâ ipsâ docente, et jucunditate suâ alliciente." Отно Fabricius.

IN TWO VOLUMES.

VOL. II.—PLATES.

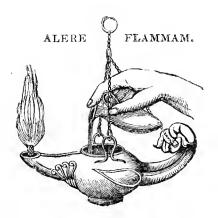
#### LONDON:

JOHN VAN VOORST, PATERNOSTER ROW.

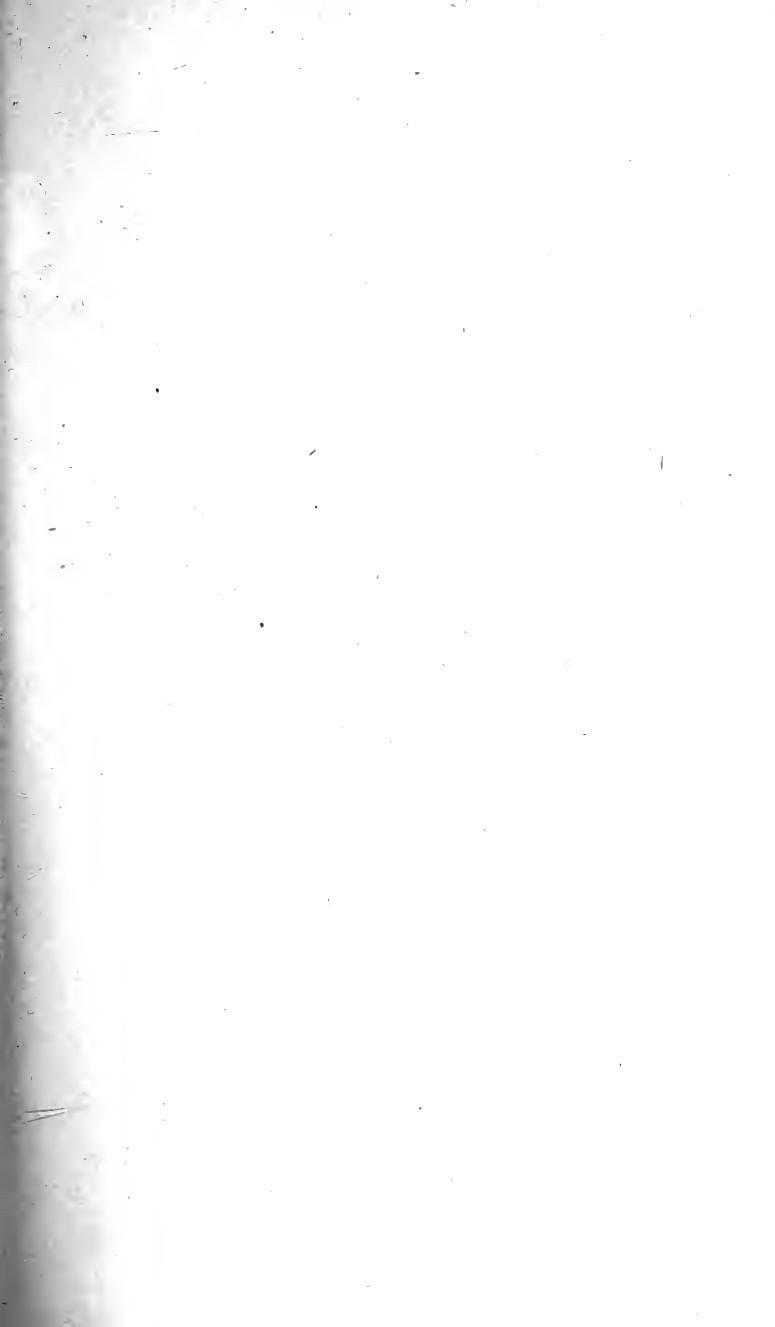
MDCCCLXXX.

"The spirit of God works everywhere alike, where there is no eye to see, covering all lonely places with an equal glory, using the same pencil and outpouring the same splendour in the caves of the waters where the seasnakes swim and in the desert where the satyrs dance, amidst the fir-trees of the stork and the rocks of the conies, as among those higher creatures whom he has made capable witnesses of his working."

Ruskin.



PRINTED BY TAYLOR AND FRANCIS,
RED LION COURT, FLEET STREET.

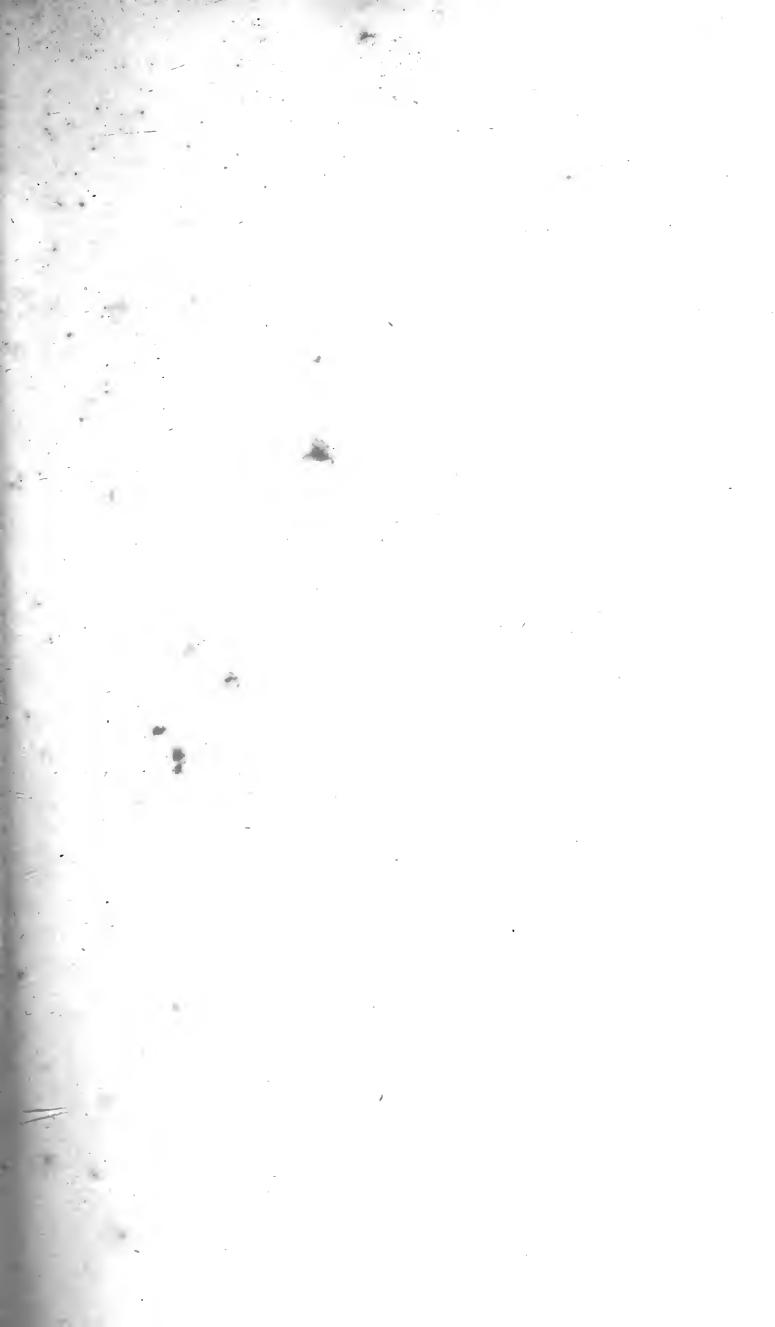


### PLATE I.

FIG.

- 1. Нірротном ехрапям, раде 291.
- 2. ΗΙΡΡΟΤΗΟΛ DIVARICATA, var. α (CONFERTA), p. 288. See Plate XLIV.
- 3. Eucratea Chelata, p. 14; repent form. See Plates II. &. III.
- 4, 5. Aetea anguina, p. 4.
- 6, 7. AETEA RECTA, p. 6.
- 8-10. AETEA TRUNCATA, p. 8. See Plate II.
  - 11. ———, dwarf variety.
  - 12. ——, a portion of the creeping base.

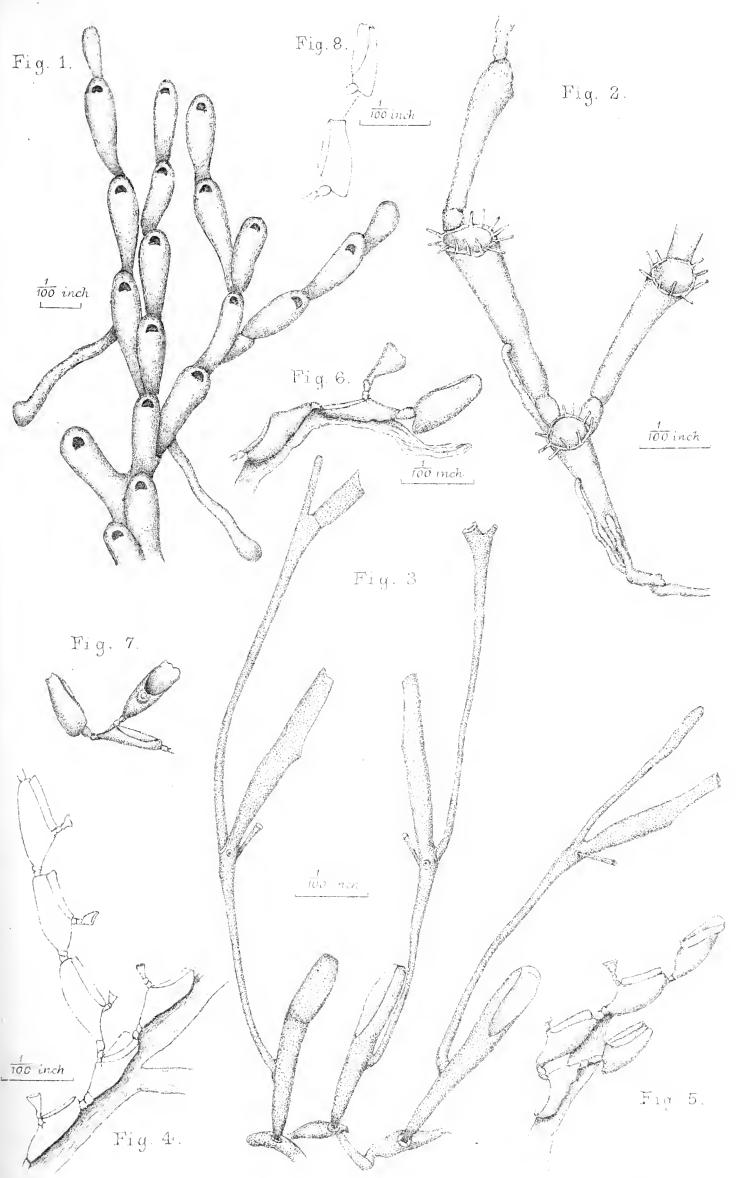




#### PLATE II.

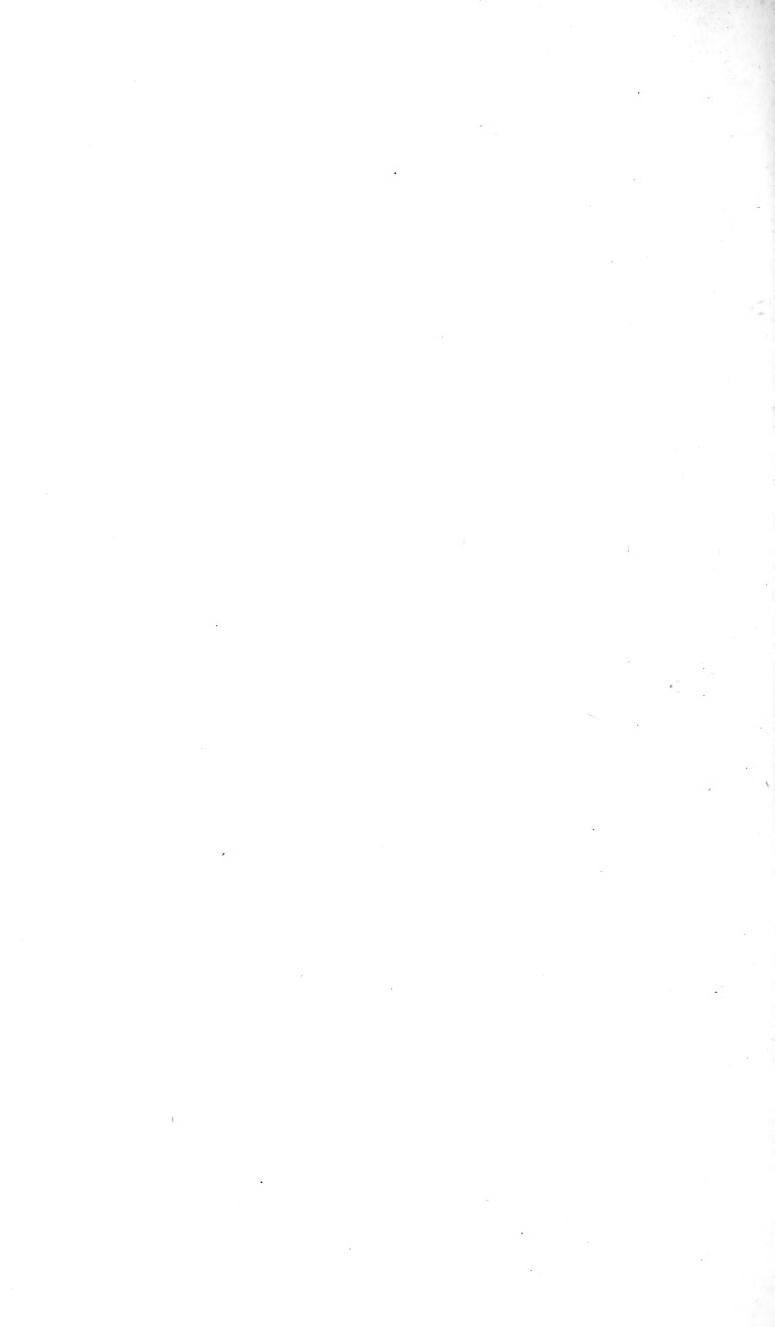
FIG.

- 1. Huxleya fragilis, p. 27. After Busk.
- 2. Brettia tubæformis, p. 28. See Plate V.
- 3. Aetea truncata, p. 8; erect and pedicellate form.
- 4. Eucratea chelata, p. 14; showing the creeping line of cells, from which the shoots spring.
- 5-7. ————, showing the primary cell and the first stages of the colony.
  - 8. - , primary zoœcia.



T.H. del. A.T. Hollick lith.

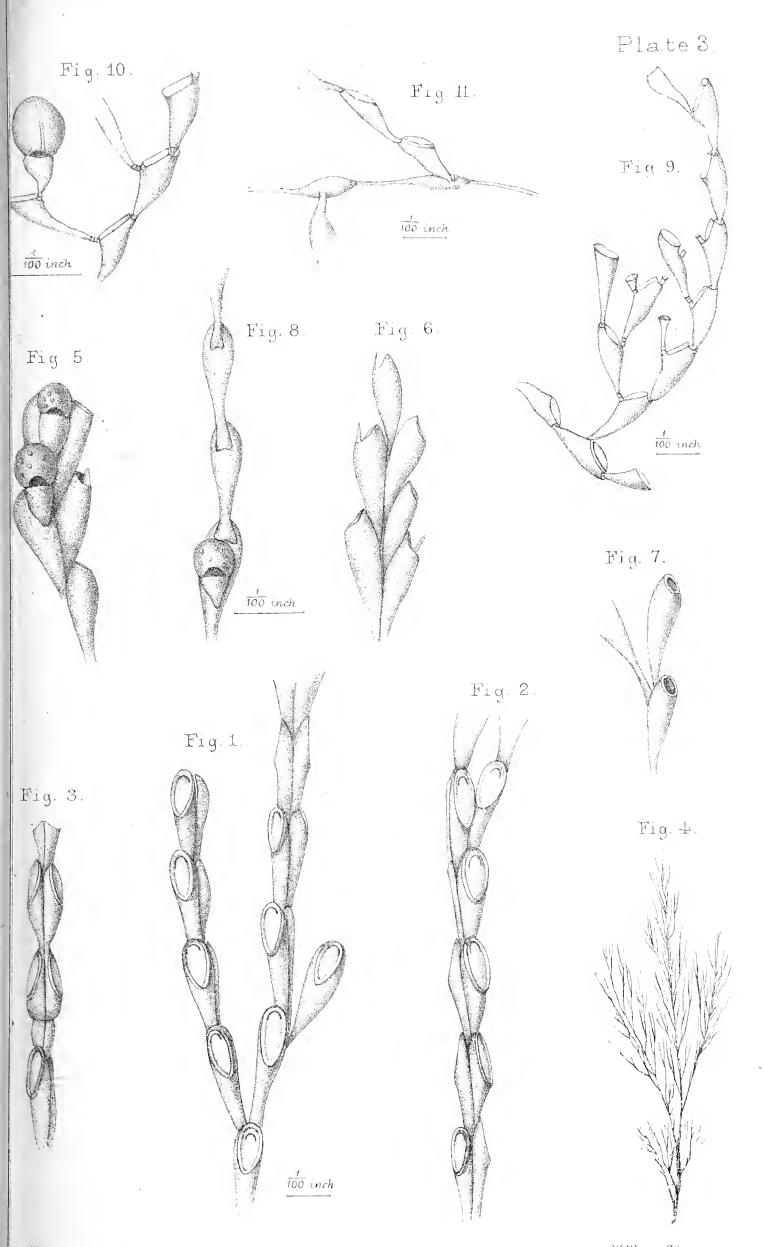
VI. West & Co imp



•			
,			
		,	
•			
•			
,			
			•
	•		
•			
a a			
			•

#### PLATE III.

1-3. Gemellaria loricata, p. 18: figure 3 is taken from a specimen of G. Willisii received from Dr. Dawson.
4. ————, natural size.
5-8. Scruparia clavata, p. 24; the uniserial and biserial forms. Fig. 7 shows the mode of branching.
9, 10. Eucratea chelata, p. 14.
11. ————, creeping base, with oval expansions, from which the shoots originate.

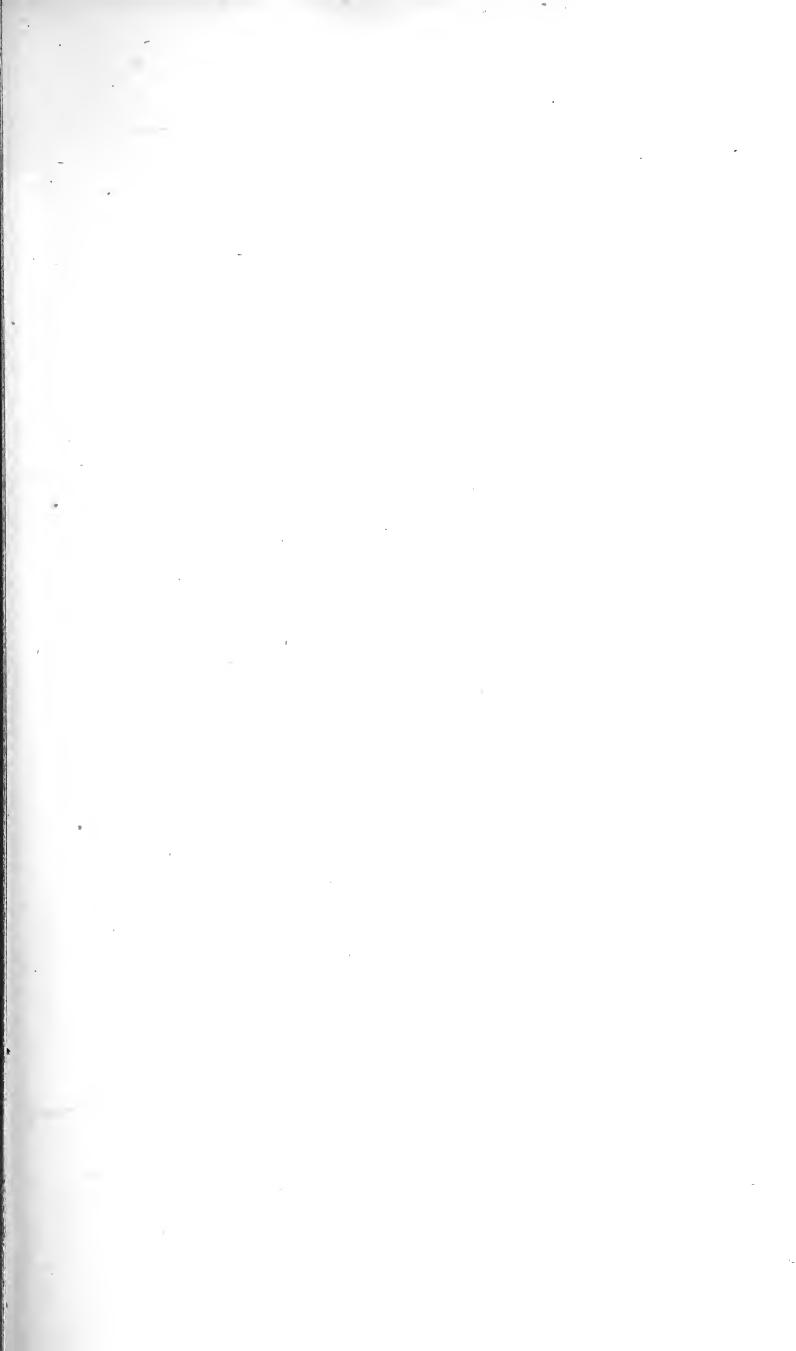


TH. del AT. Mellick liter

London: John Voorst, MDCCCLXXIX

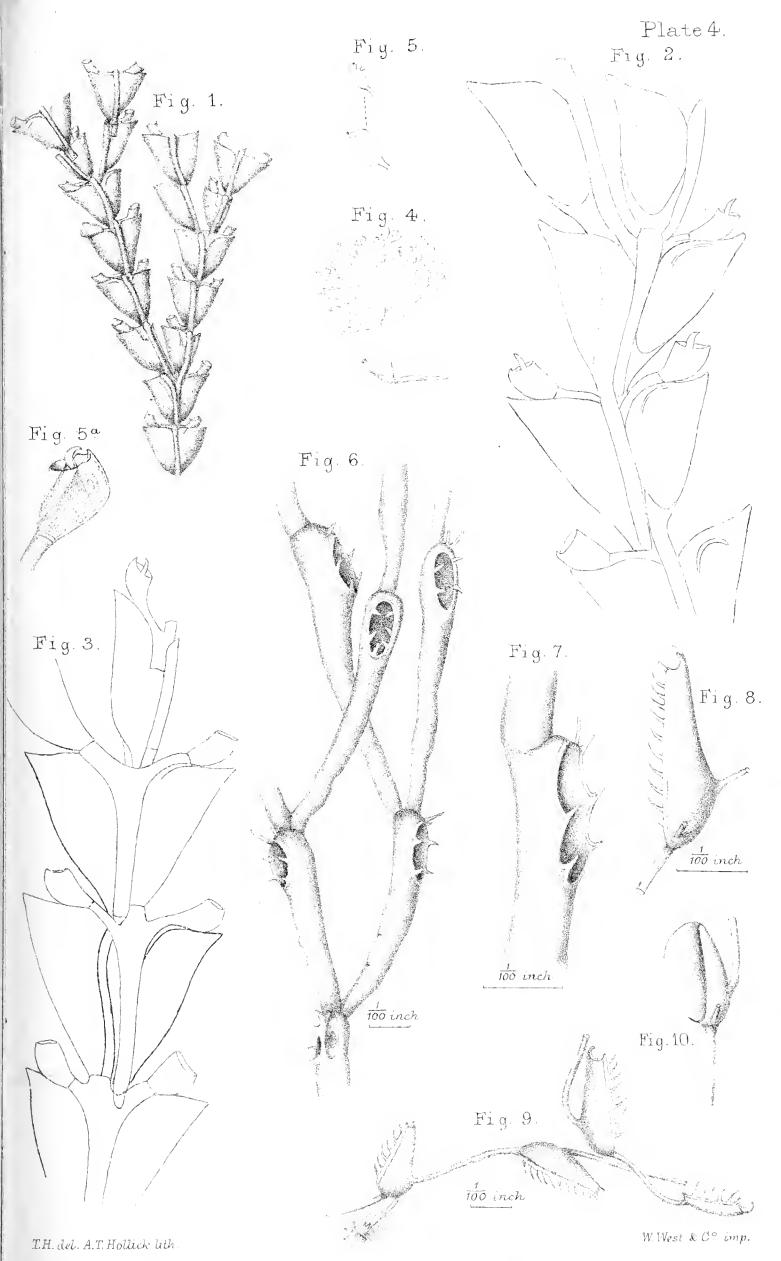
W. West & C? imp.



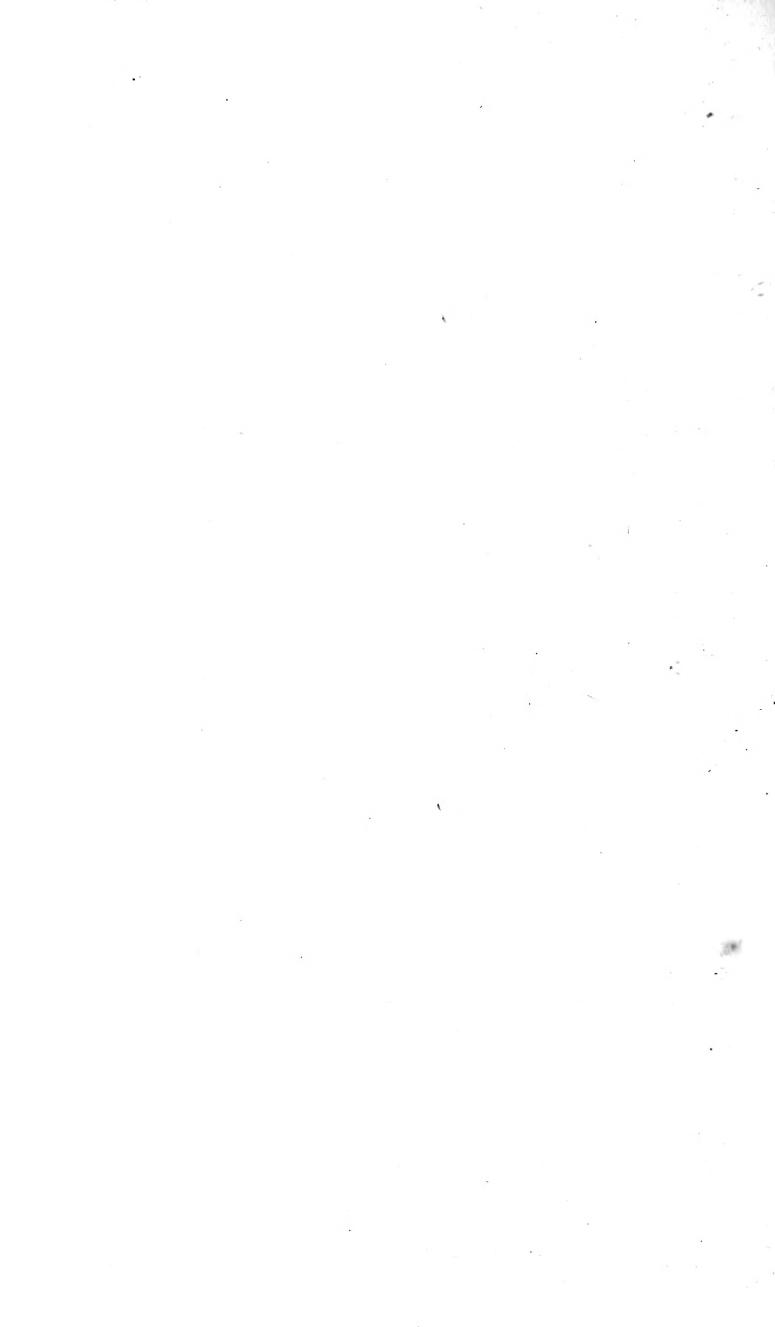


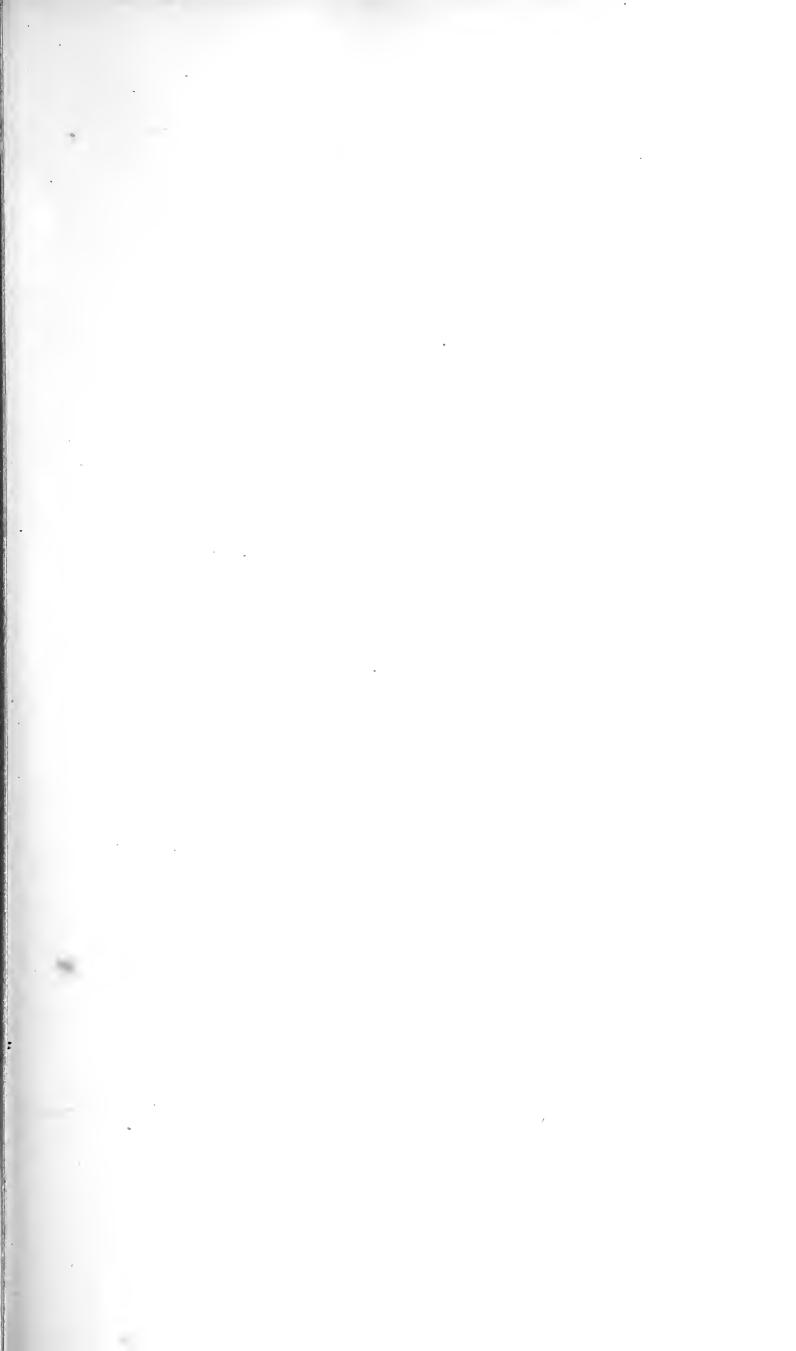
## PLATE IV.

FIG.	
1. Notamia bursaria, p. 100.	
2. ——, front of the zoarium.	
3. ————, dorsal surface.	
4. ————, nat. size.	
5. ————, avicularia, showing the differences of size.	to
5 a. — — , avicularium, showing the arrangement of the muscles for opening and closing the mandible. After Busk.	
5, 7. Brettia pellucida, p. 28. After Busk.	
8, 9. Beania mirabilis, p. 96.	
10. ———, a young cell.	



London: John Van Voorst, MDCCCLXXIX

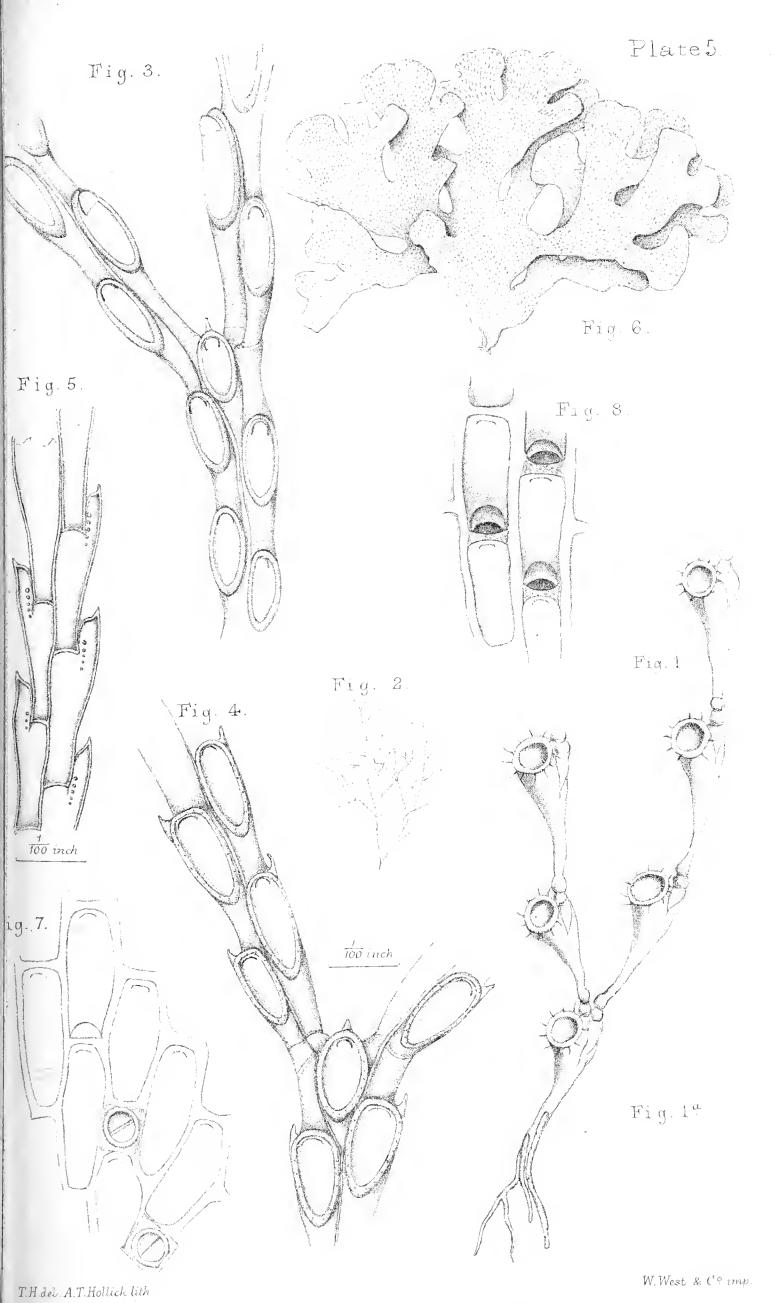




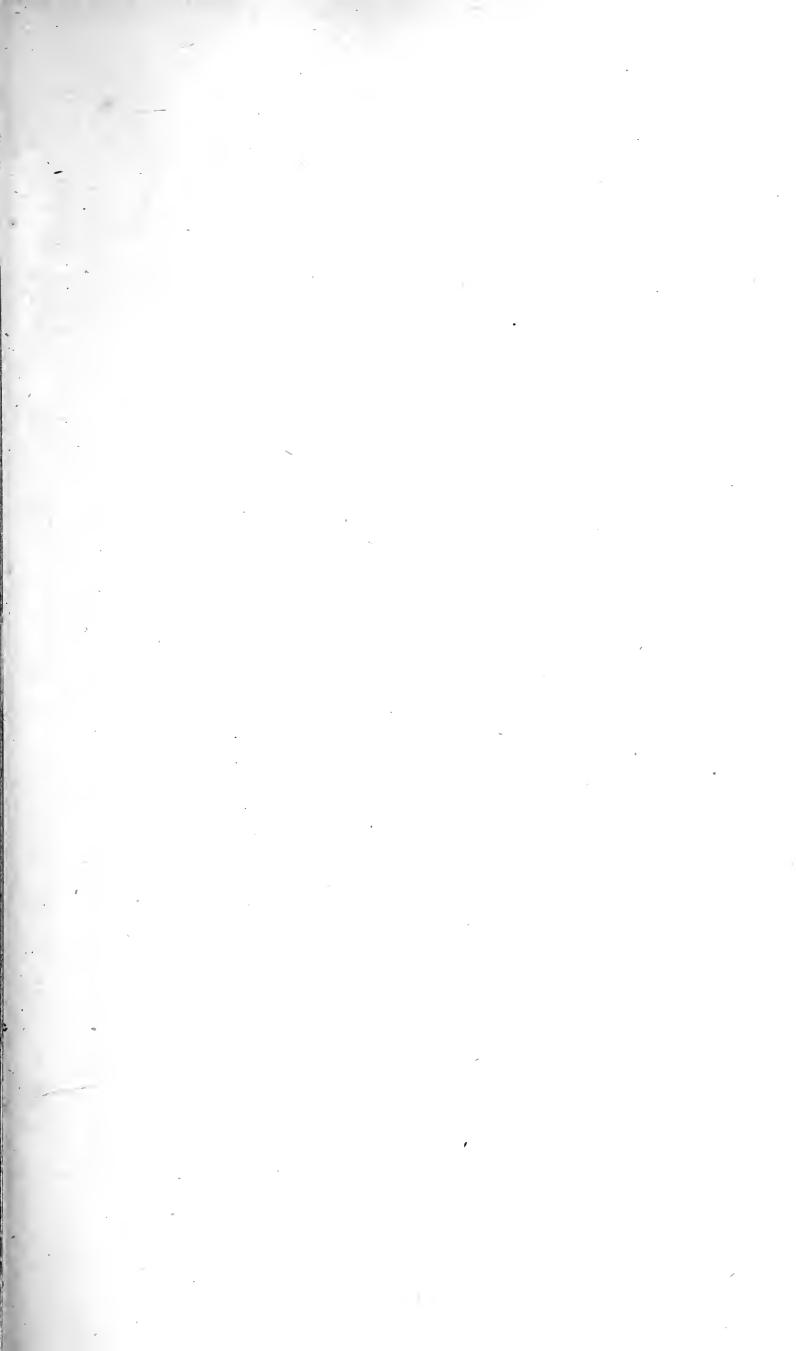
### PLATE V.

FIG.

- 1. Brettia tubæformis, p. 28. After a sketch by Mr. R. S. Boswell.
- 2-5. Cellularia Peachii, p. 34.
  - 6. Flustra Barleei, p. 122, nat. size. From a drawing by Mr. Alder.
  - 7. ——, zoœcia, with avicularia.
  - 8. ———, zoœcia, showing the immersed oœcia.

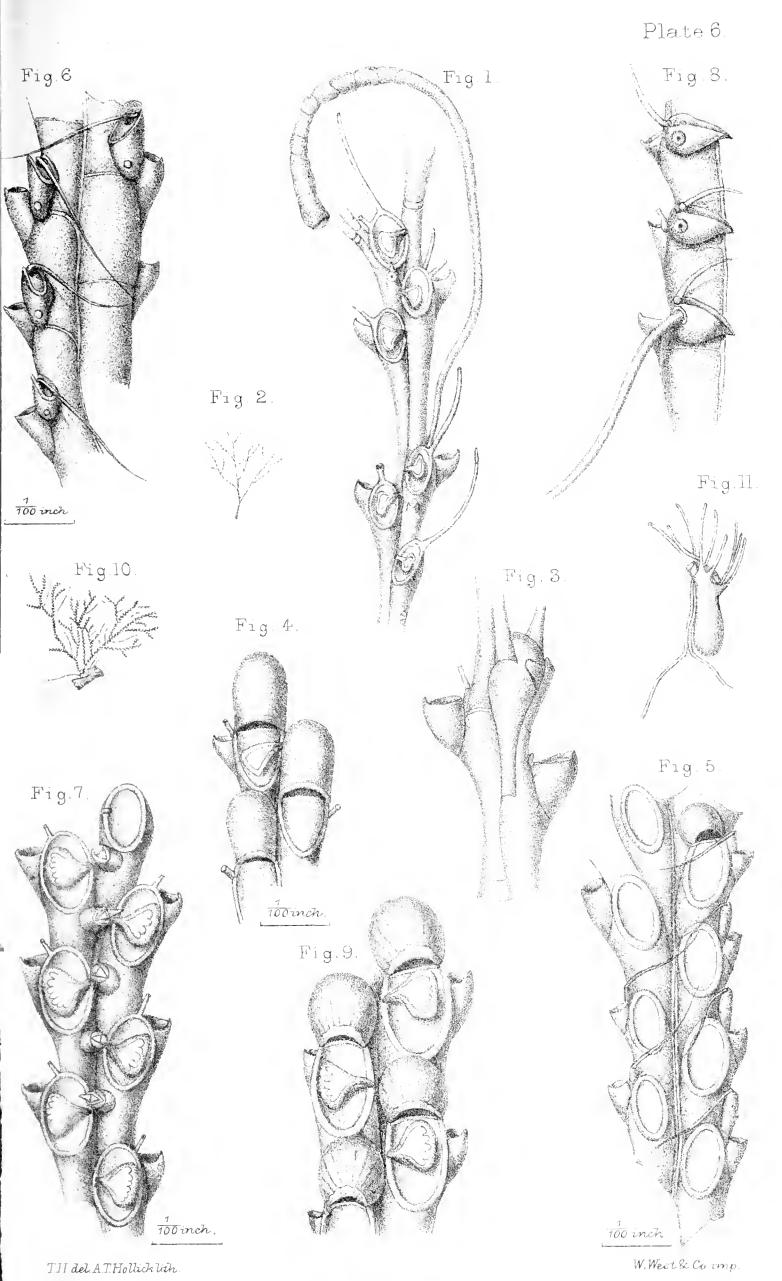


					· ·
		,			-
					• -
					:
				,	ar.
		·e			
•					
				٠	
				•	
				•	
			į		
		•			
			•		
				,	
					*
					-
				•	
	-				
		•			
				•	
	•				



## PLATE VI.

FIG.	
	Menipea ternata, p. 38.
2.	, nat. size.
3.	——————————————————————————————————————
4.	, oœcia.
5, 6.	Scrupocellaria elliptica, p. 46.
7-9.	Scrupocellaria scabra, p. 48.
10.	, nat. size.
11.	, primary cell. After Smitt



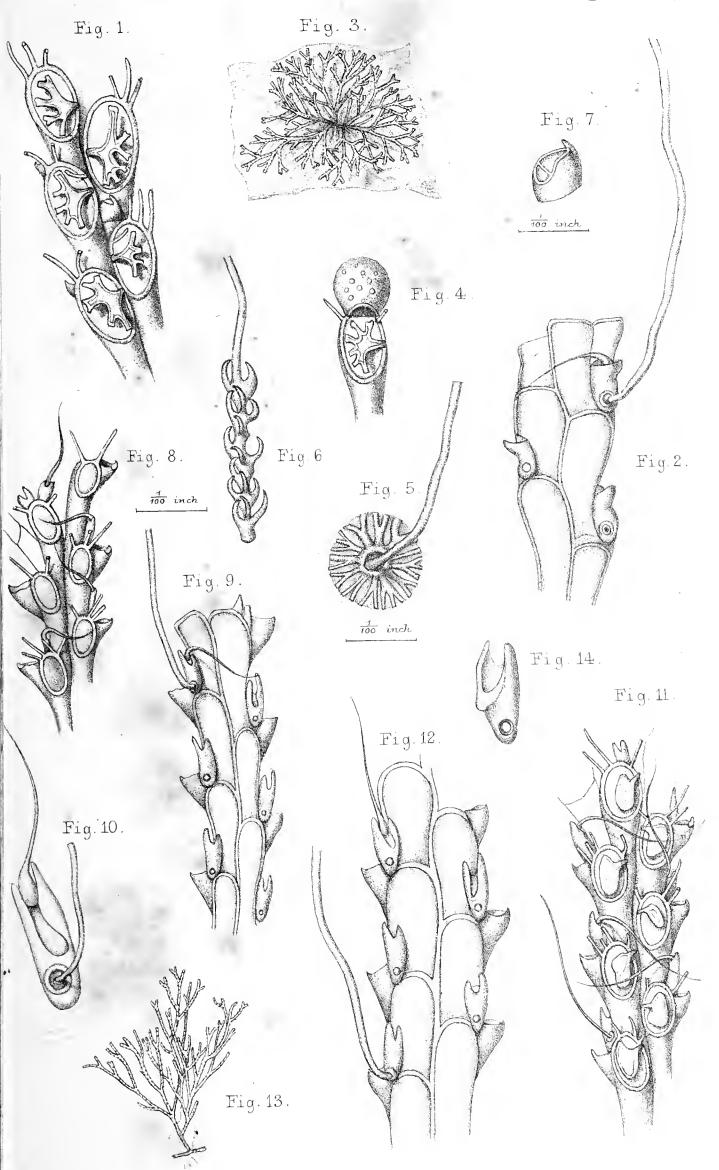
London: John Van Voorst MDCCCLXXIX





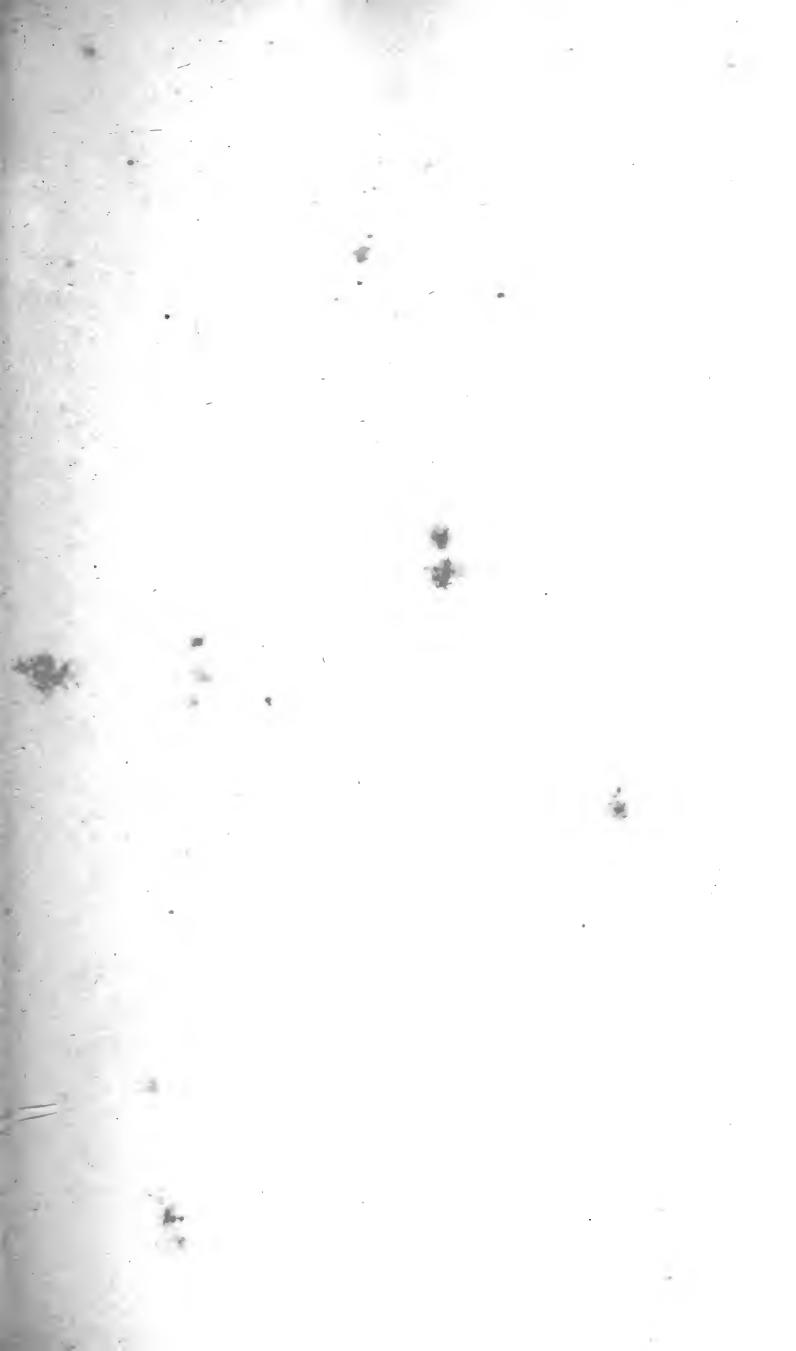
## PLATE VII.

FIG.	
	Scrupocellaria reptans, p. 52.
3.	, nat. size.
4.	, with oœcium.
5.	————, radical fibre with adhesive disk.
6.	—, ditto modified so as to form a grapnel.
7.	———, front avicularium.
8, 9.	Scrupocellaria scruposa, p. 45.
10.	, vibraculum.
11, 12.	Scrupocellaria scrupea, p. 50.
13.	——————————————————————————————————————
14.	, vibracular cell.



W West & C? imp

		•	
	4		



## PLATE VIII.

1, 2. BICELLARIA CILIATA, p. 68.

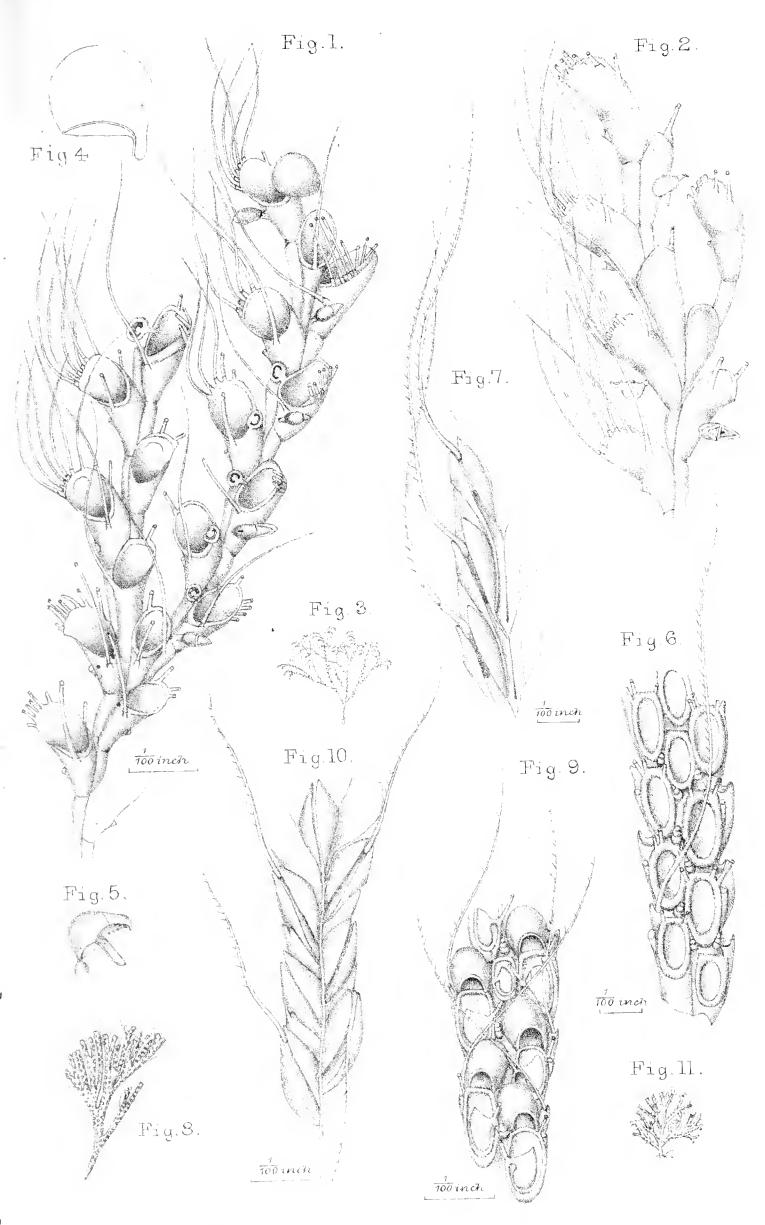
3. ———, nat. size.

4. ———, oœcium.

5. ———, avicularium.

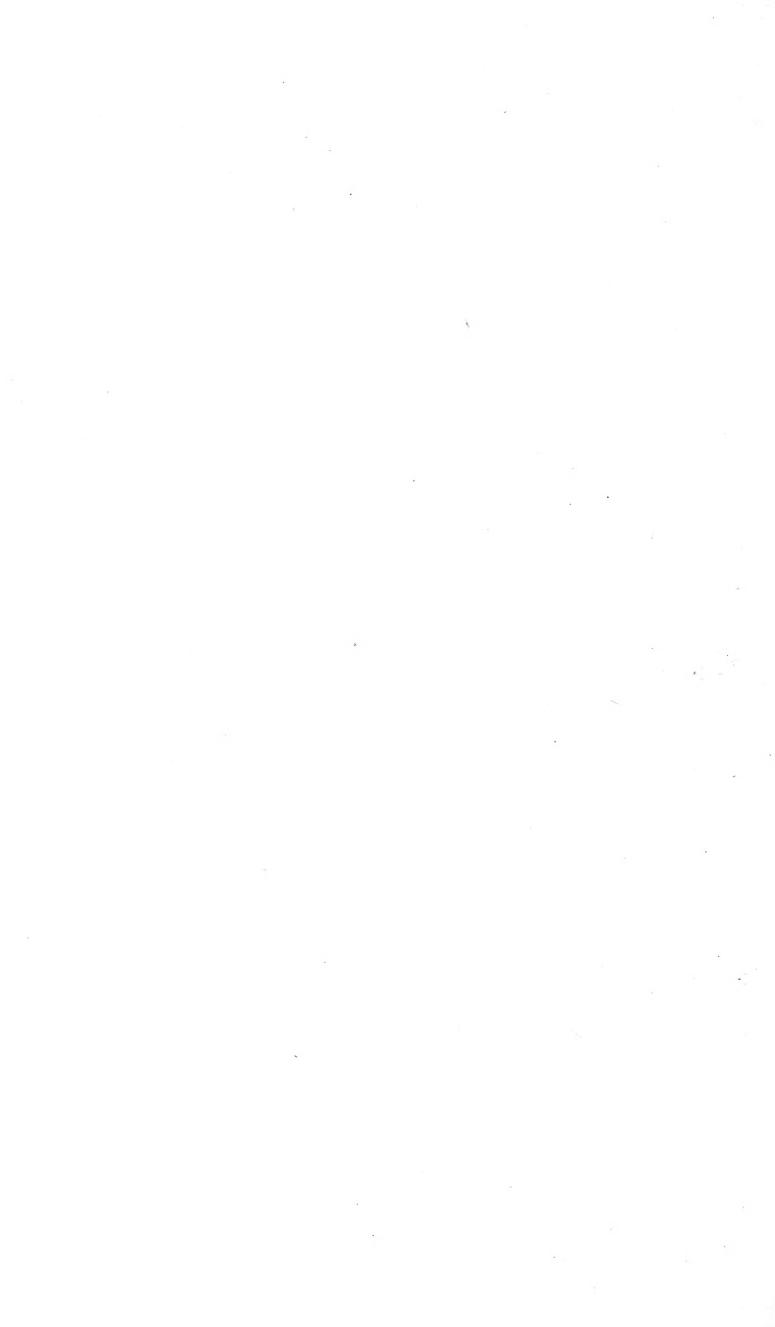
6-8. Caberea Ellisii, p. 59.

9-11. Caberea Boryi, p. 61.



T.H. del. A T. Hollack Lith.

W. West & Co. imp.





## PLATE IX.

1, 2. Menipea Jeffreysii, p. 42.

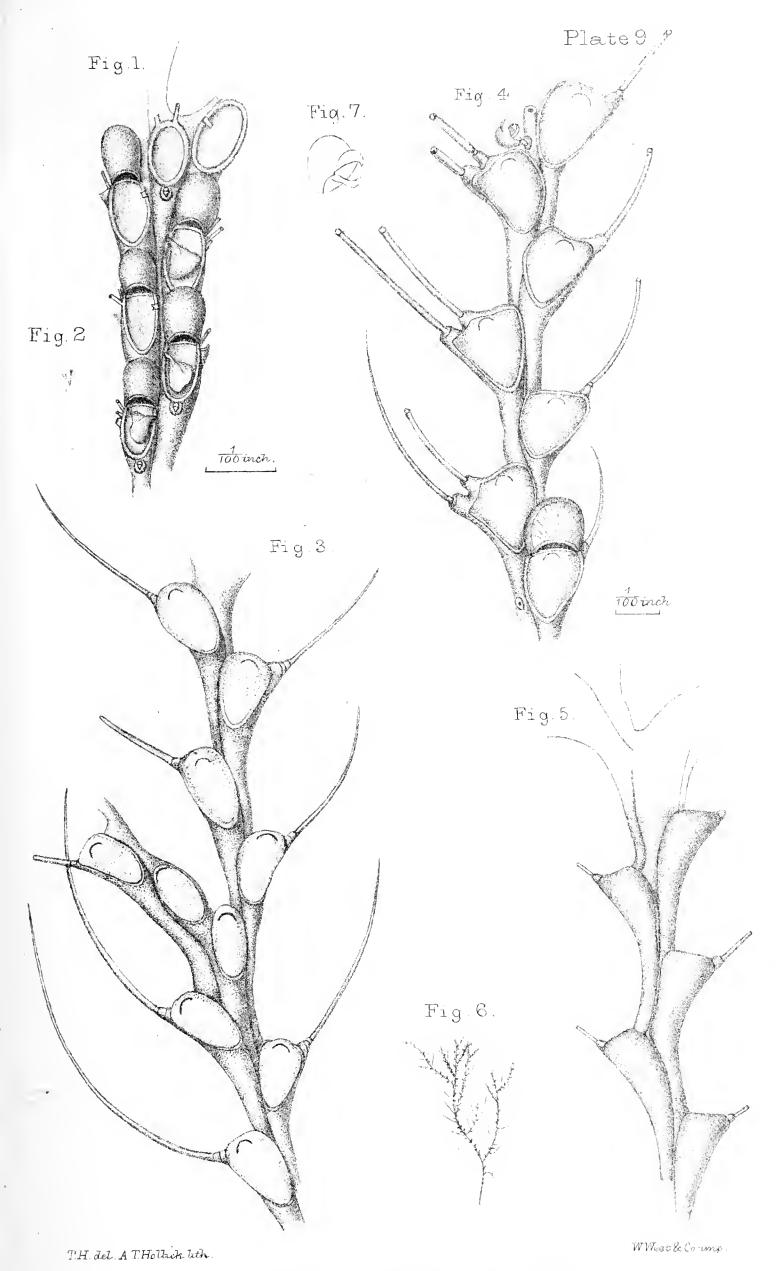
3. Bicellaria Alderi, p. 70; usual form.

4. ———, with occium and a double spine.

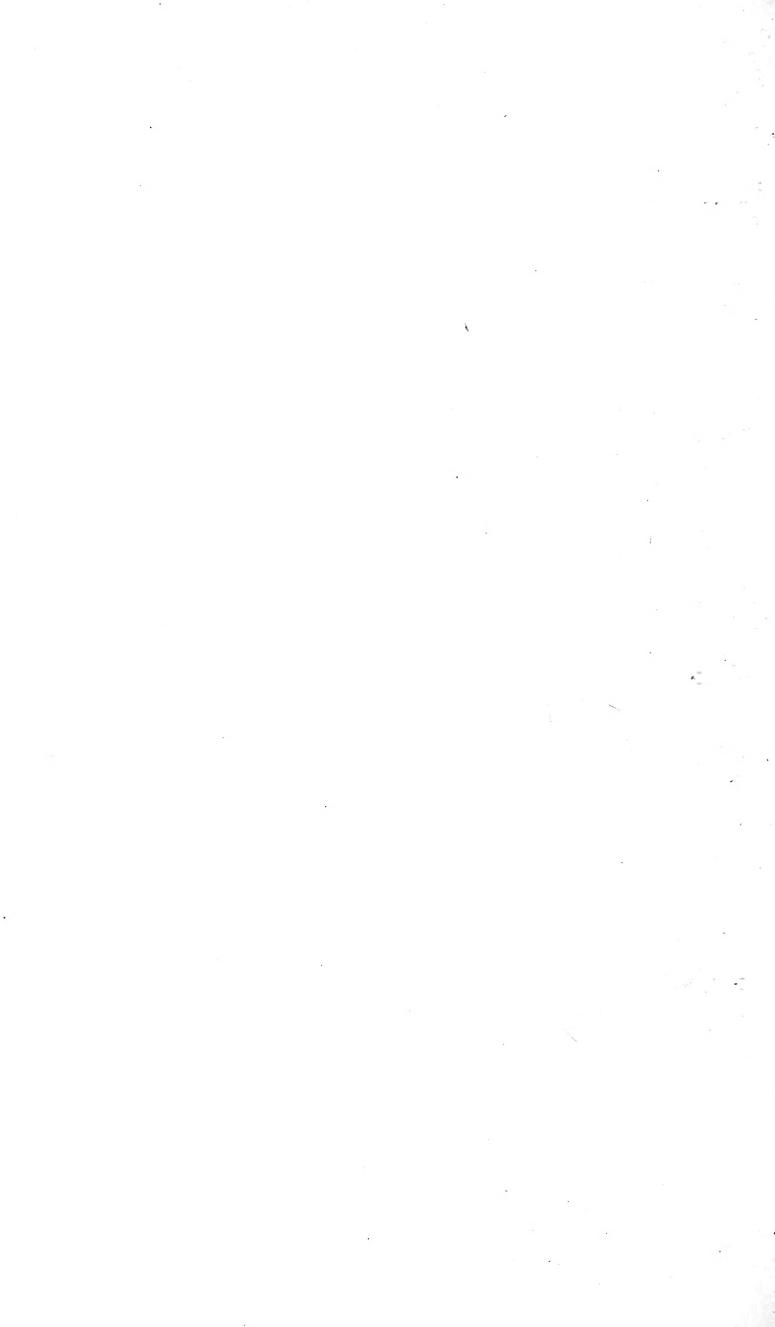
5. ———, dorsal surface.

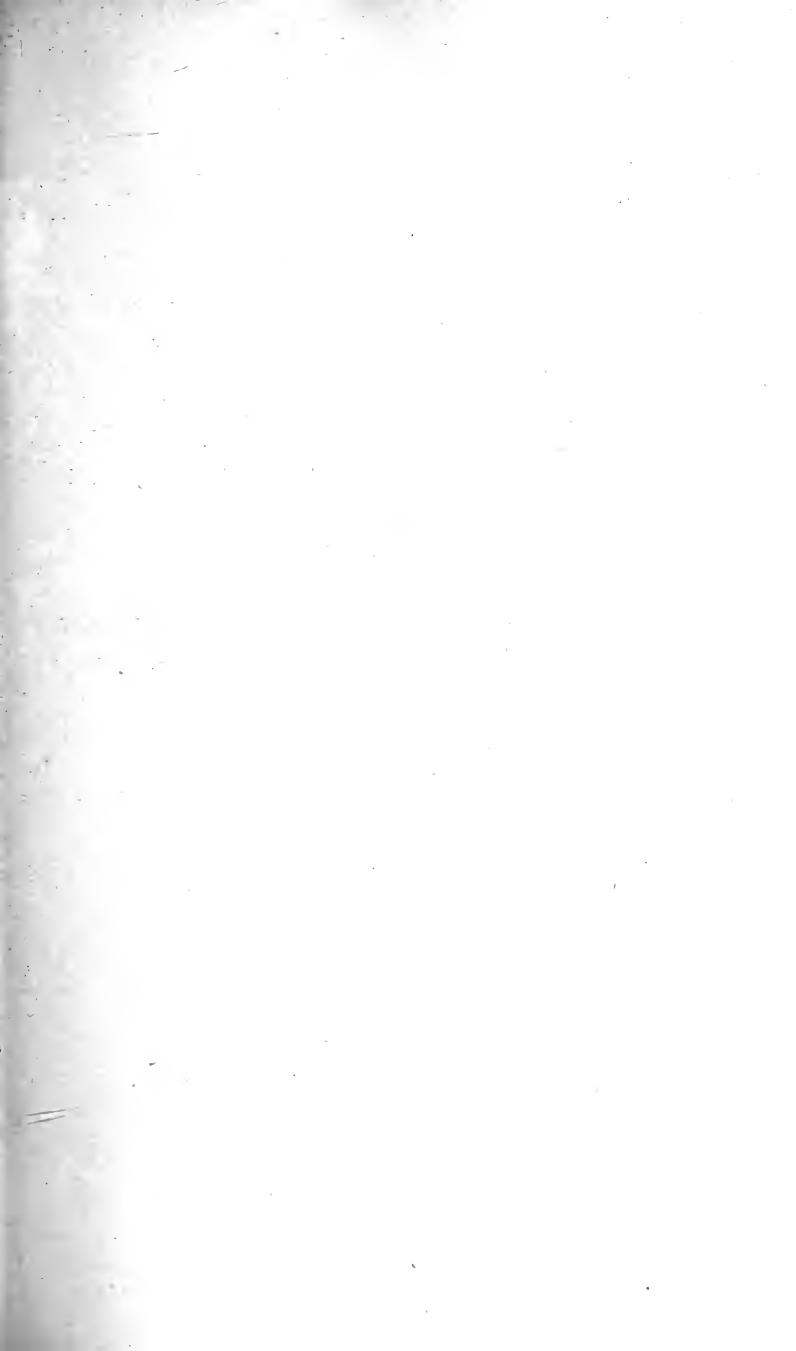
6. ———, nat. size.

7. ———, avicularium.



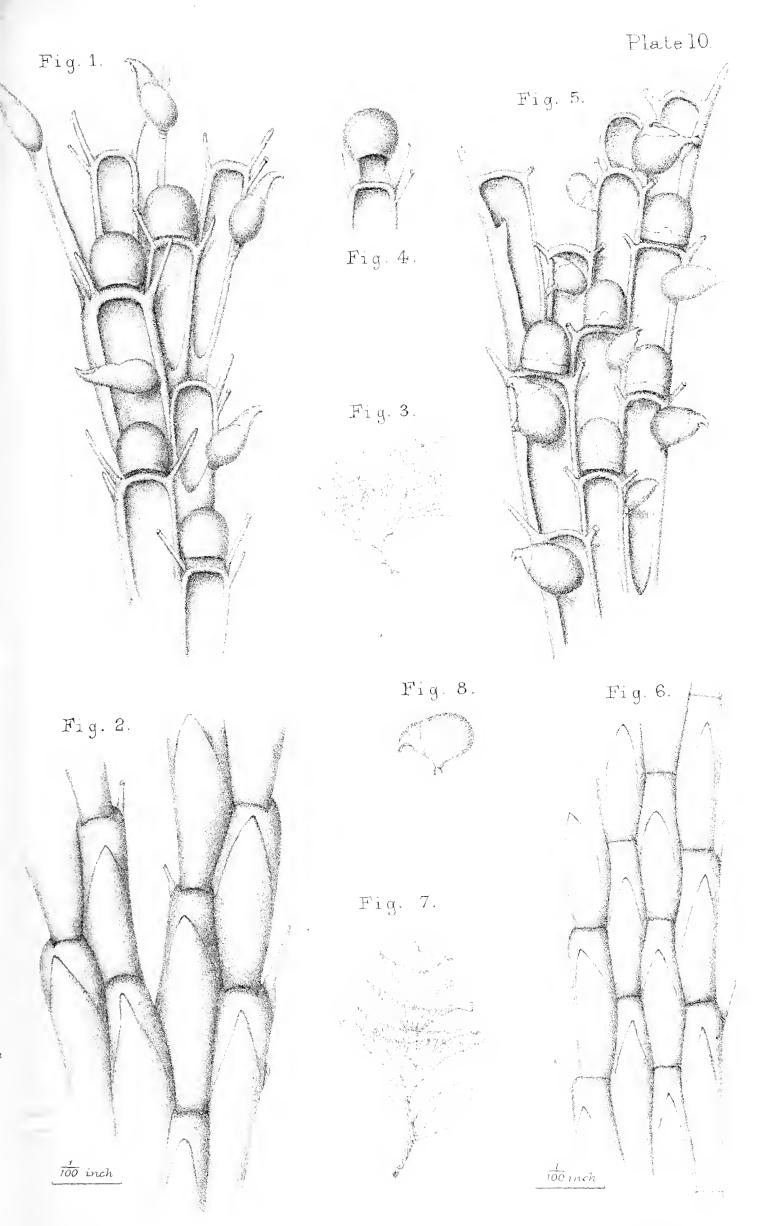
London: John Van Voorst, MDCCCLXXIX





# PLATE X.

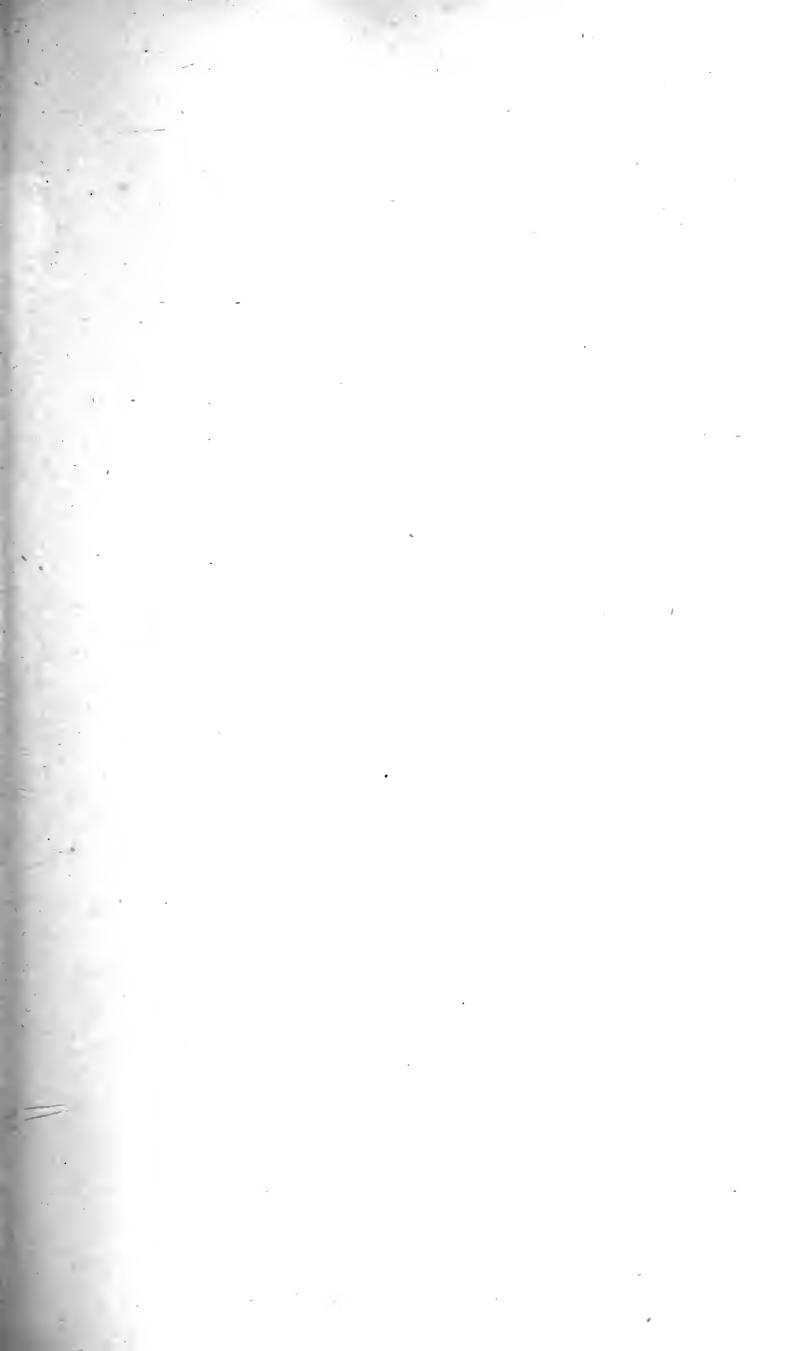
ы гіс 1.	Bugula avicularia, p. 75.	
2.	——————————————————————————————————————	
3.	, nat. size.	
4.	, showing the attachment of the occium the cell.	to
5.	Bugula turbinata, p. 77.	
6.	——————————————————————————————————————	
7.	——, nat. size.	
8.	, avicularium.	



T.H. del. A.T. Hollick lith.

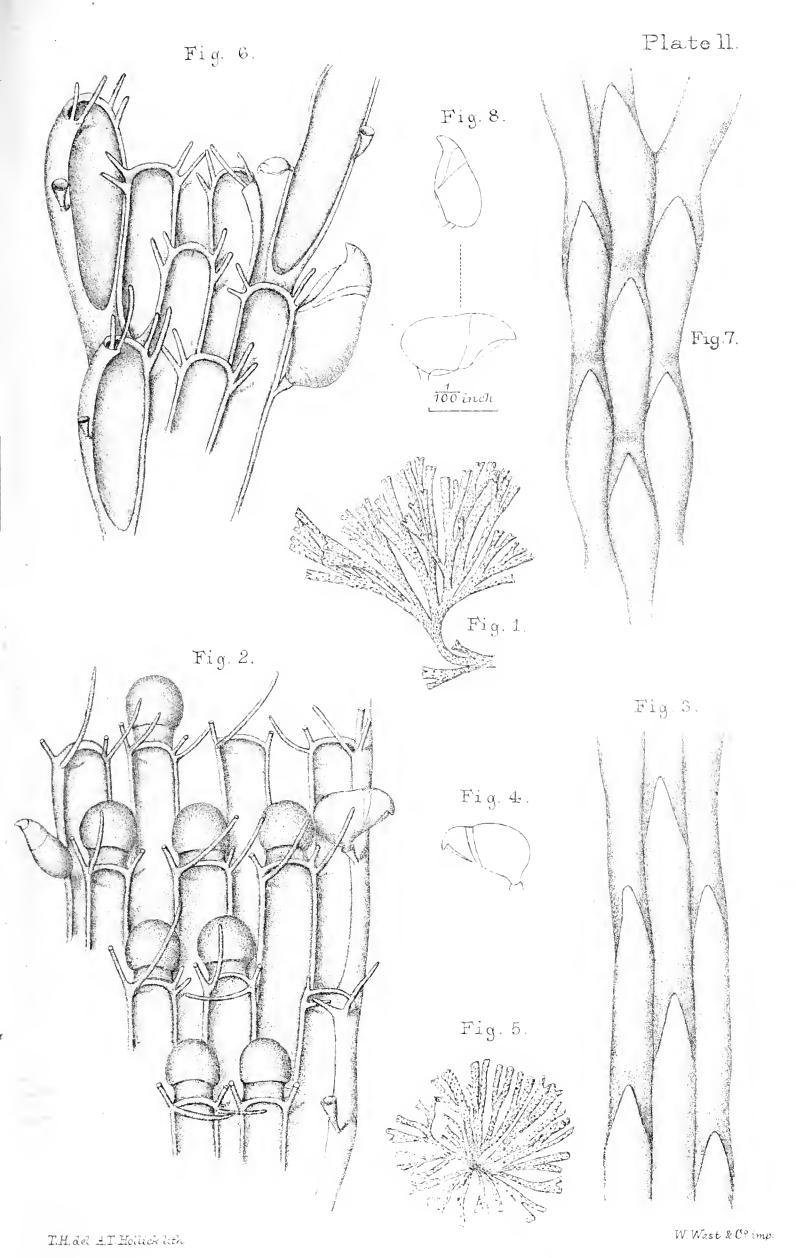
W. West & C? inp.

•		
	ă.	

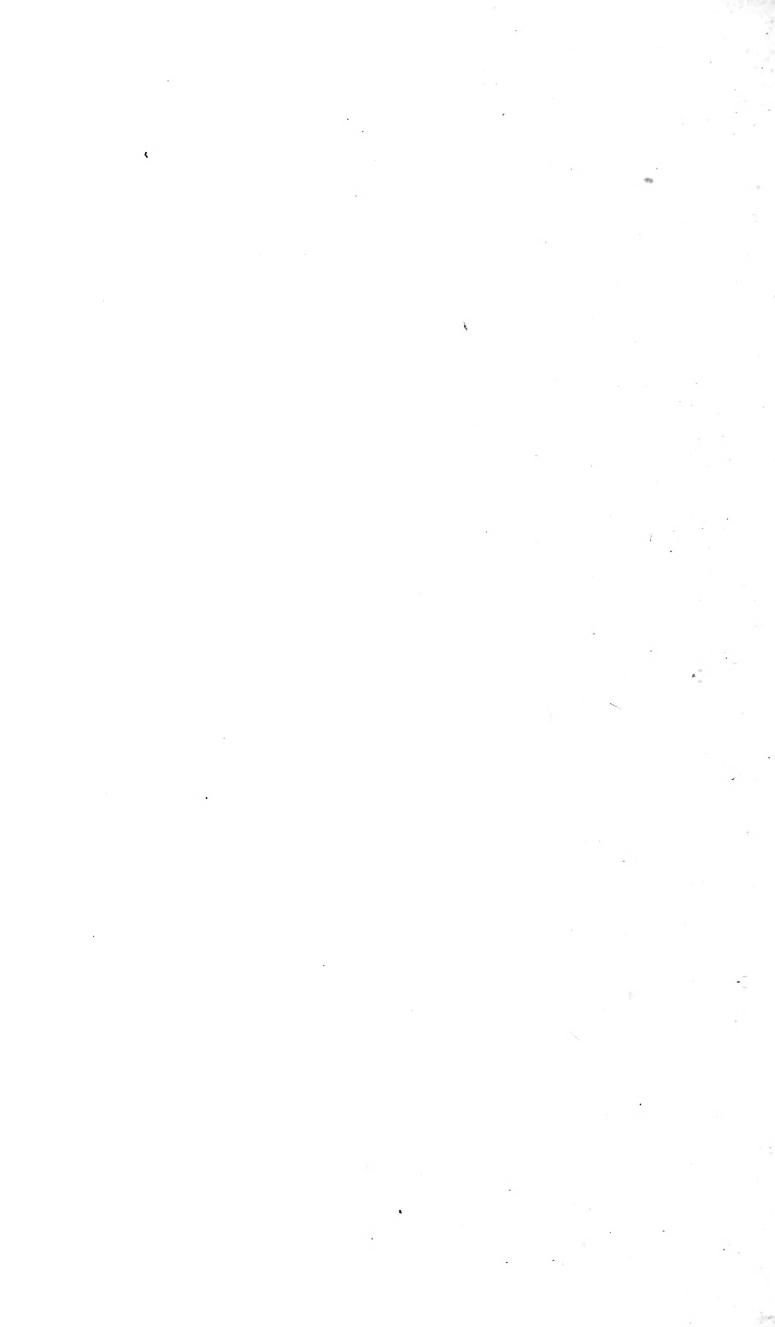


## PLATE XI.

Bugula flabellata, p. 80; a portion of a shoot, nat. size.
 3. — , front and dorsal surfaces.
 4. — , avicularium.
 Bugula calathus, p. 82; nat. size.
 7. — , front and dorsal surfaces.
 8. — , avicularia.



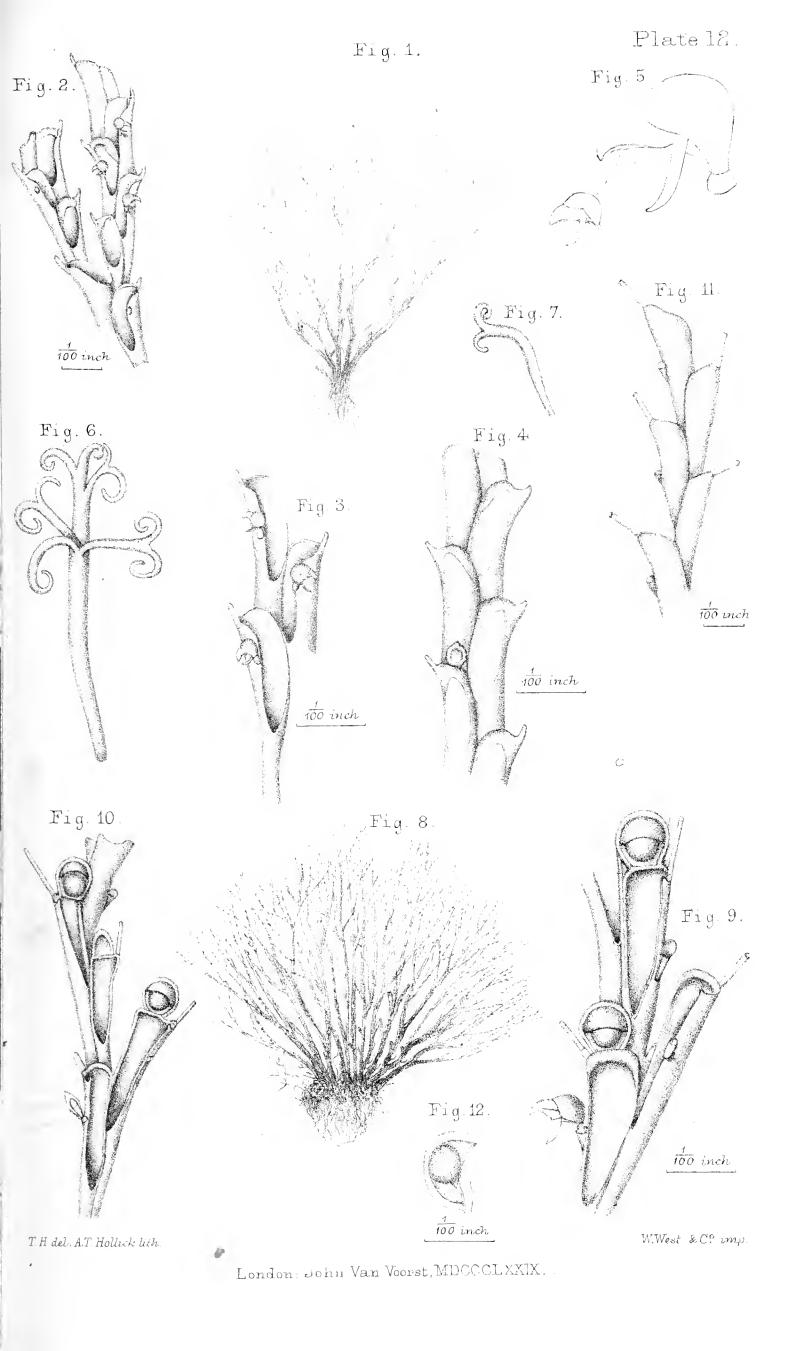
London: John Van Voorst MDCCCLXXIX





# PLATE XII.

FIG.	
1.	Bugula plumosa, p. 84; nat. size.
2-4.	
5.	, avicularia.
6, 7.	Bugula gracilis, var. uncinata, p. 86; prehensile appendages. See Plate XV.
8.	Bugula purpurotincta, p. 89; nat. size.
9, 10.	——————————————————————————————————————
11.	——————————————————————————————————————
12.	—, oœcium.

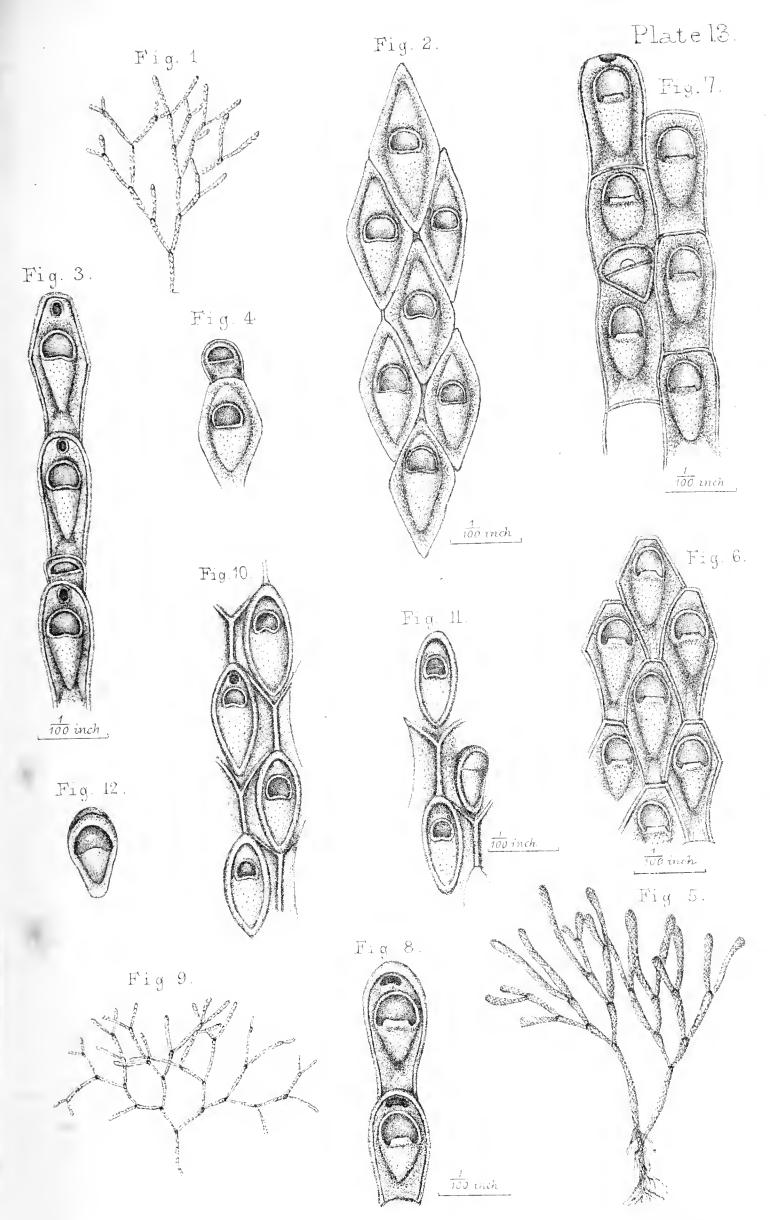






## PLATE XIII.

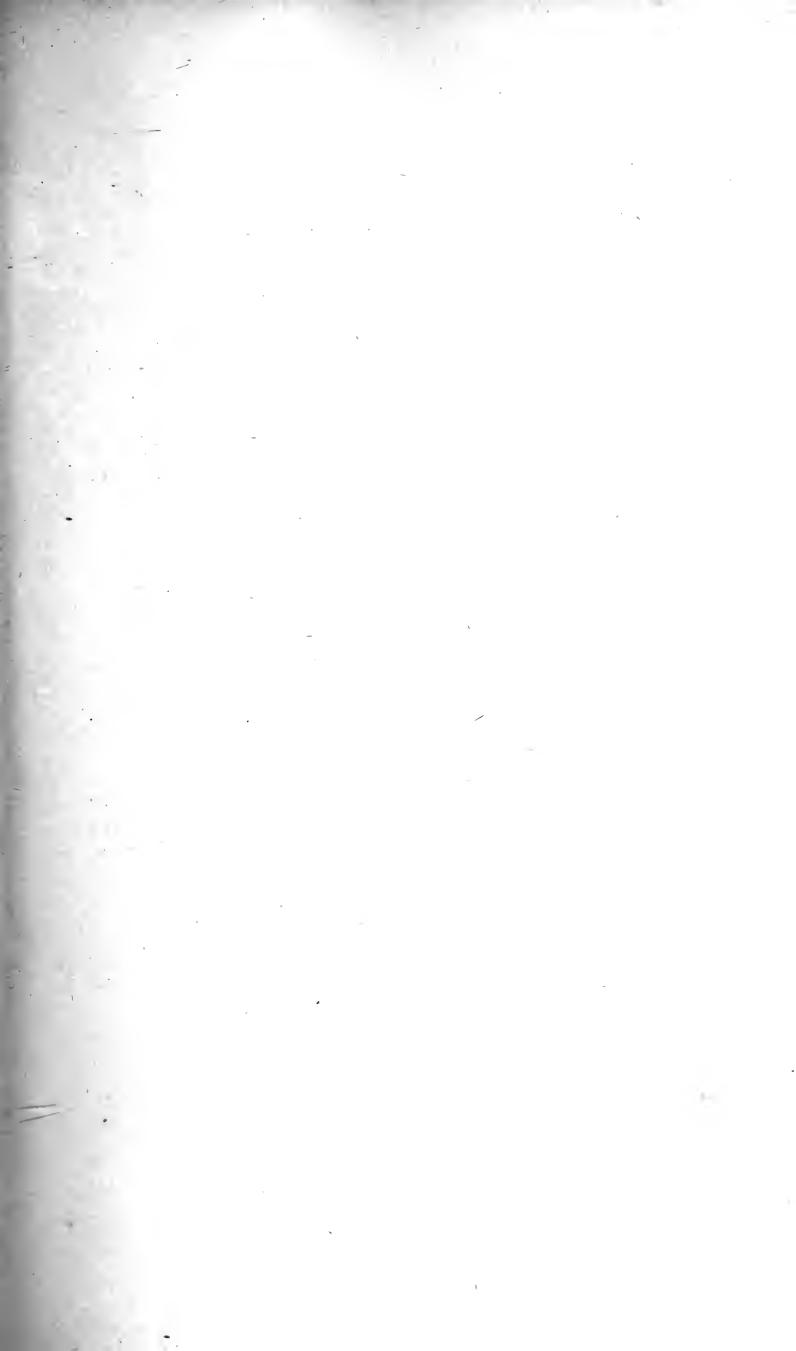
FIG.	
1–4.	Cellaria fistulosa, p. 106.
5-8.	Cellaria sinuosa, p. 109.
9, 10.	Cellaria Johnsoni, p. 112.
11.	, showing the avicularium in situ
12.	, avicularium detached.



TH and AT Hollick little

W. West & C? imu

				41, 11, 14, 17, 17
				. 7
				• •
		,		
		76 c		
				1
		•		• 1
	60			
	•			
		*		
	•			
				C7-11
			1	
9				
	•			
				3
				i i
			82	
				- 1
•				
			*	
	17			
			<b>\</b>	
				1
	•		*	
			•	
				- 1



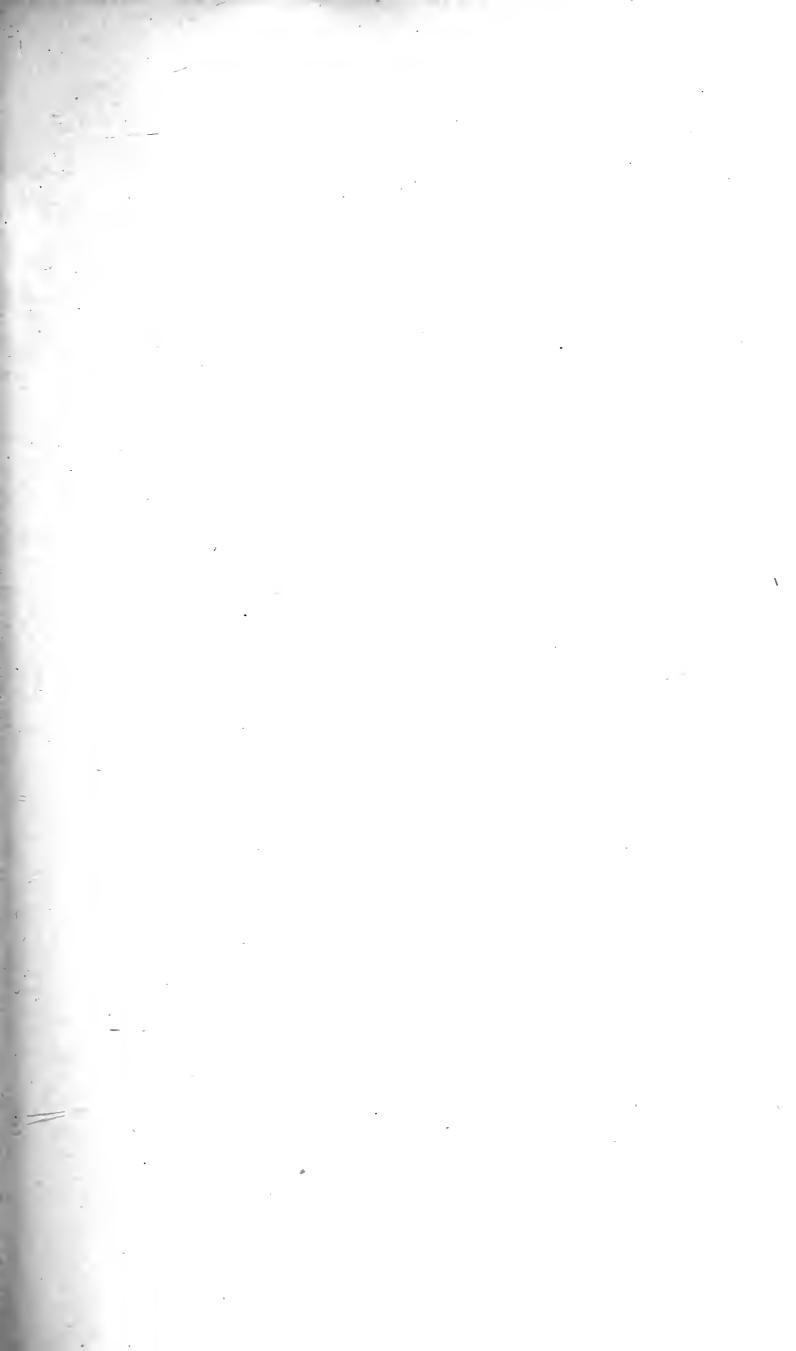
#### PLATE XIV.

Flustra carbasea, var., p. 123; from a specimen in Mr. Norman's collection. See Plate XVI.
 Bugula Murrayana, p. 92; nat. size.
 —, var. a (fruticosa), nat. size.
 —, zoœcia of the normal form.
 —, zoœcia of var. fruticosa.
 —, dorsal surface.
 —, avicularia, showing the difference in size between those on the front and margin of the cells.
 Flustra foliacea, p. 115; palmate form. See Plate XVI.

T.H.del. A T.Hollick lith.

W. West & C? imp

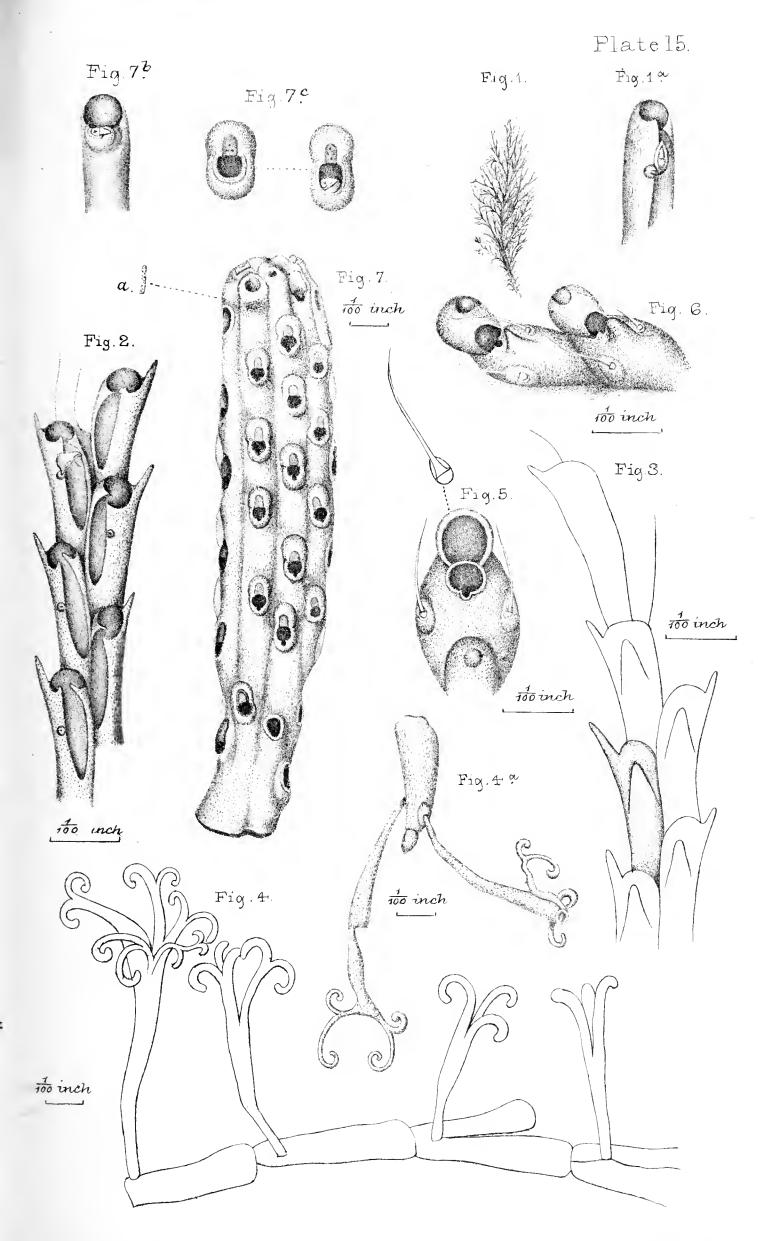




## PLATE XV.

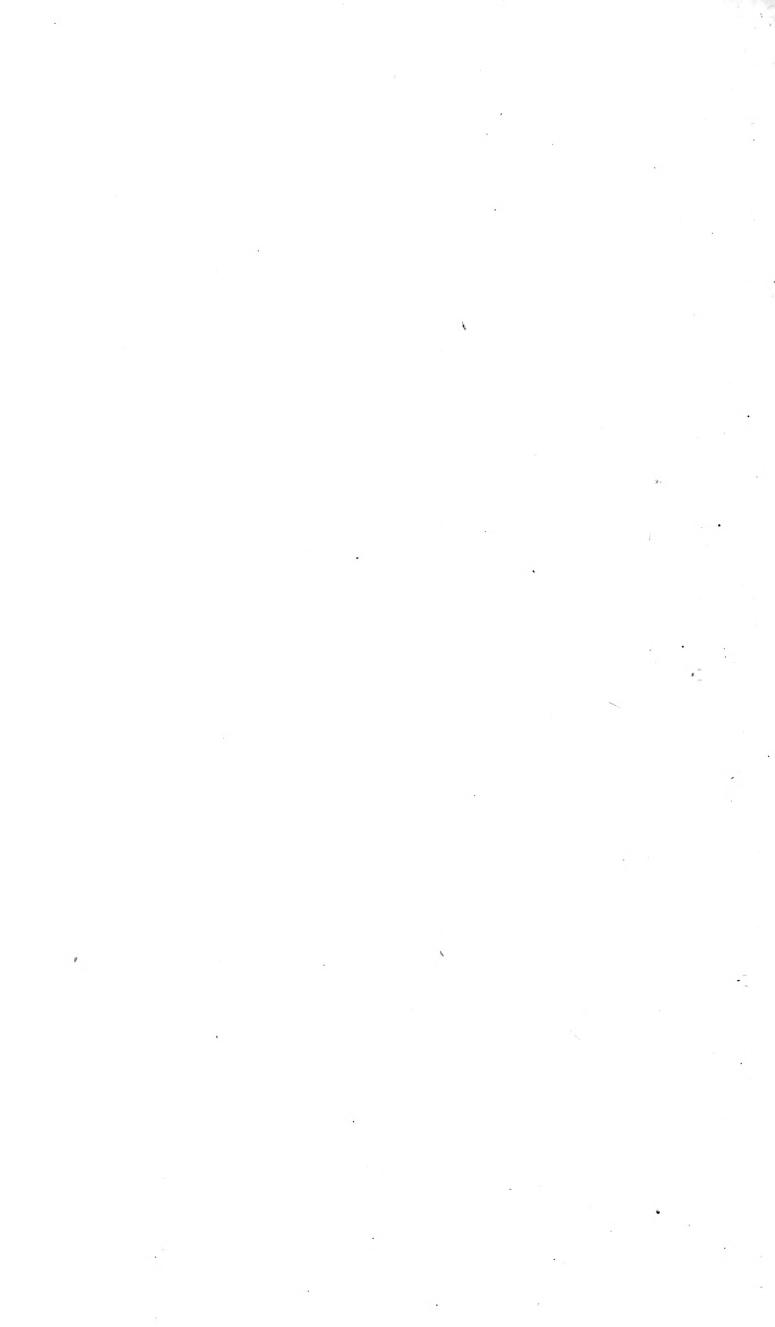
FIG.

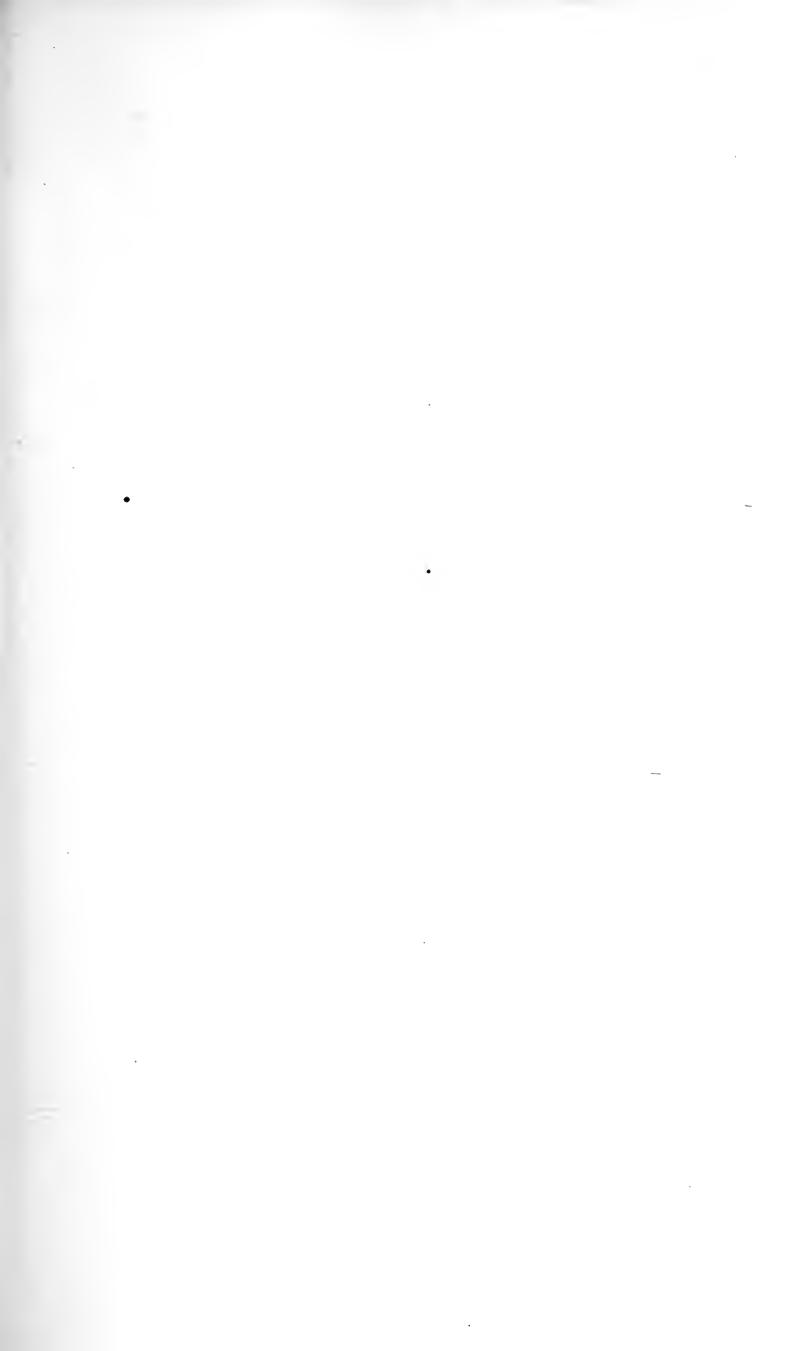
1. Bugula gracilis, var. uncinata; p. 86, nat. size.
1 a. ————, a single cell, showing the position of the avicularium.
2. ———, zoœcia, front view.
3. ————, dorsal surface.
4. — , prehensile appendages. 4 a. — , primary cell and appendages.
4 a. ——, primary cen and appendages.
5. Schizoporella vulgaris, p. 244; showing the structure of the cell. See Plate XXXVII.
6. ———, var. with umbonate ovicell, and mucro or the front wall.
7, 7 a. Escharoides quincuncialis, p. 339; fragment magnified and nat. size.
7 b. ———, young cell.
7 c. ————, occium and orifice, forming together the "mamillary rising."



T.H. del. A.T. Hollick lith.

West, Newman & Co. imp.





#### PLATE XVI.

1. Flustra foliacea, p. 115; nat. size.

1 a, 1 b. —————, zoœcia magnified.

2. Flustra papyracea, p. 118; nat. size.

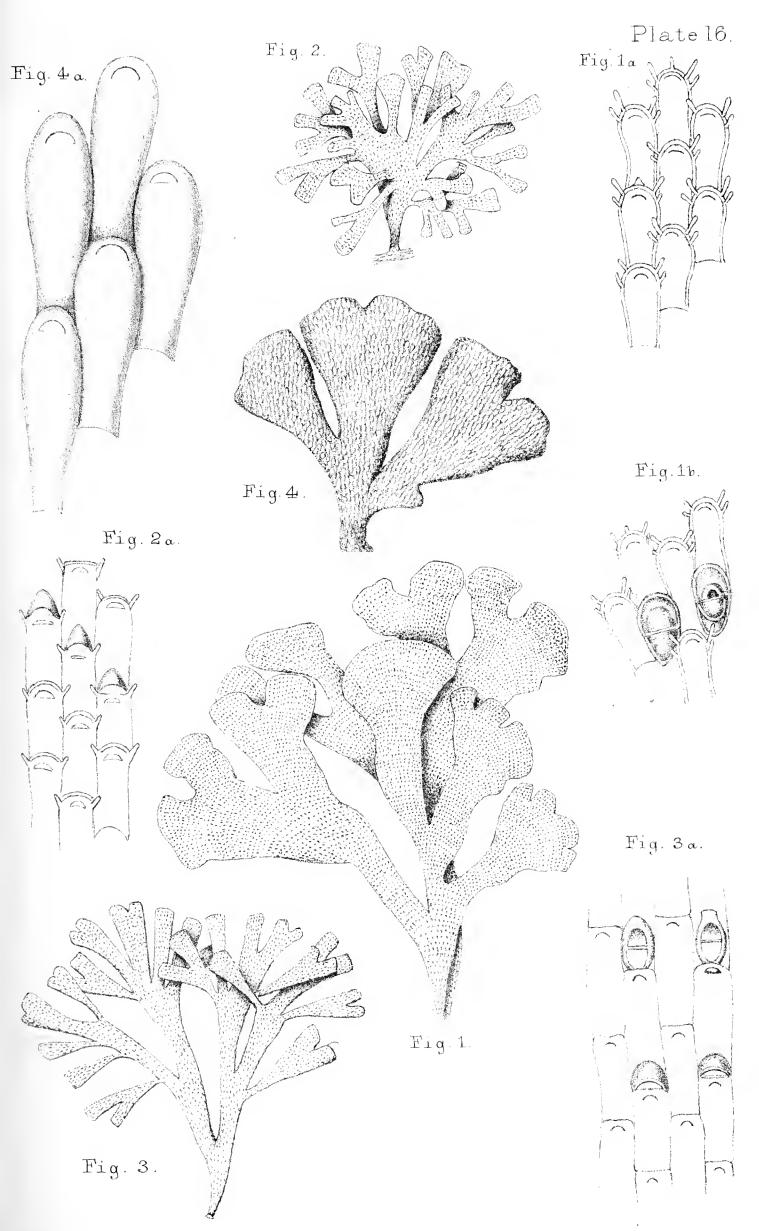
2 a. —————, zoœcia and ovicells.

3. Flustra securifrons, p. 120; nat. size.

3 a. —————, zoœcia, with avicularia and ovicells.

4. Flustra carbasea, p. 123; nat. size.

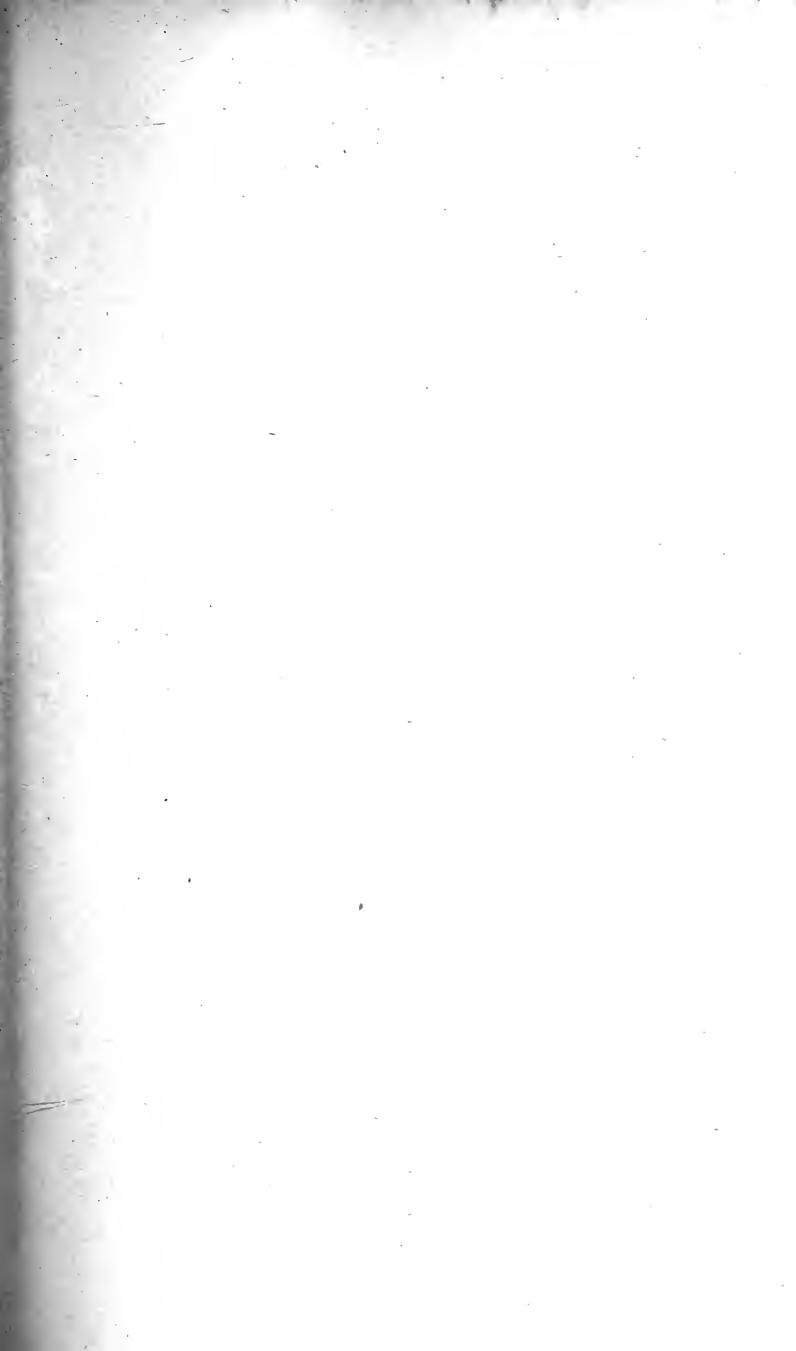
4 a. —————, zoœcia.



T.H.del . A.T.Hollick lith.

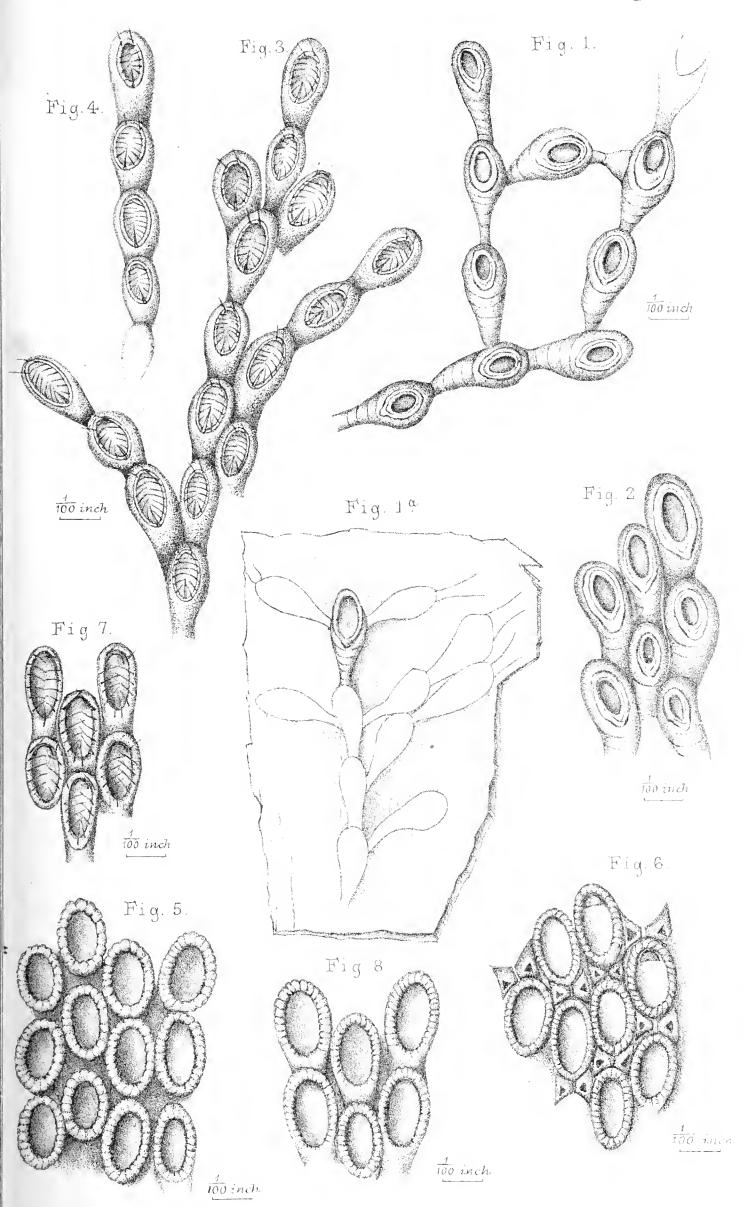
W. West & C? unp.

		•			
	·			•	** T
<i>&gt;</i>				· v.	
					•
					÷
			-		
				•	
			,		



## PLATE XVII.

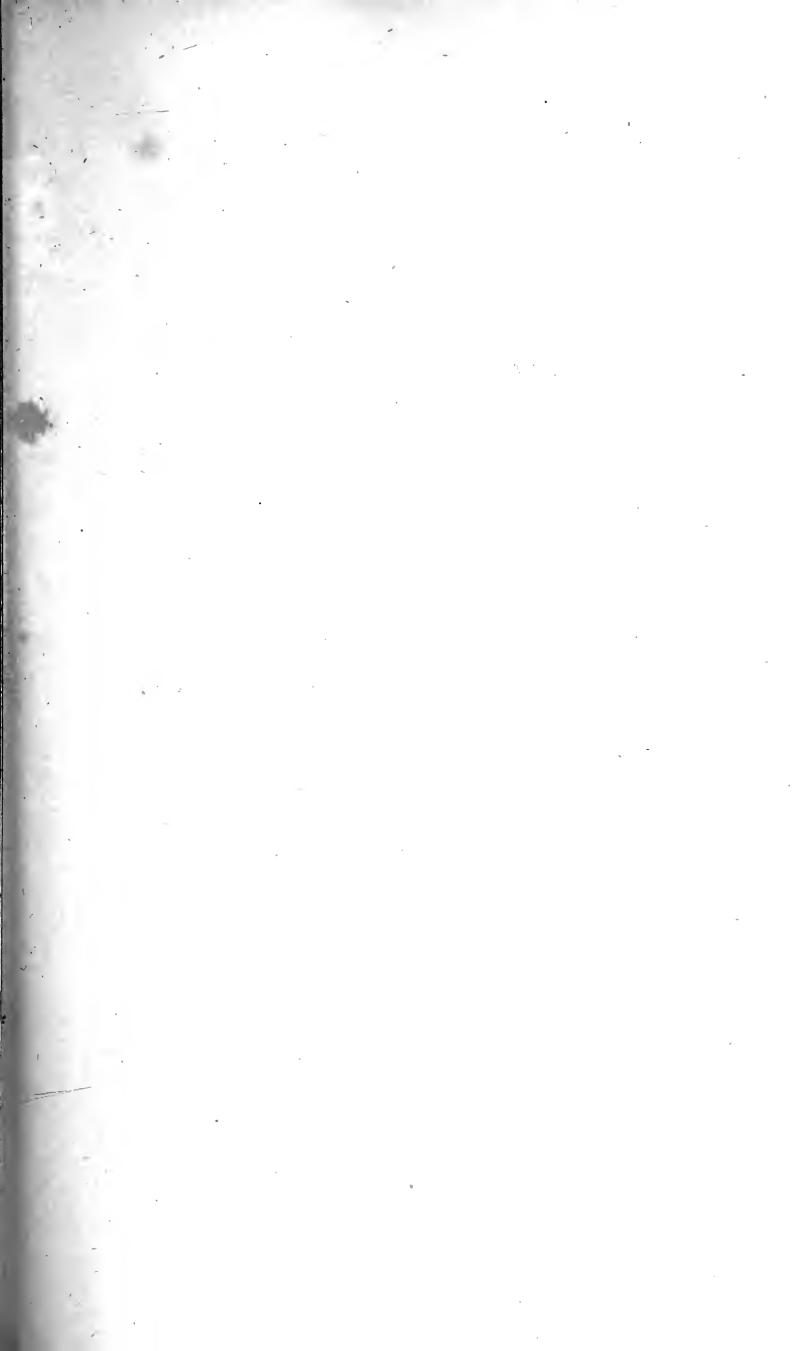
- 1, 2. Membranipora catenularia, p. 134.
- 3, 4. Membranipora monostachys, p. 131; linear form. See Plate XVIII.
- 5, 6, 8. Membranipora Lacroixii, p. 129; various states.
  - 7. ———, with marginal spines.



T.H.del. A.T. Hollick lith.

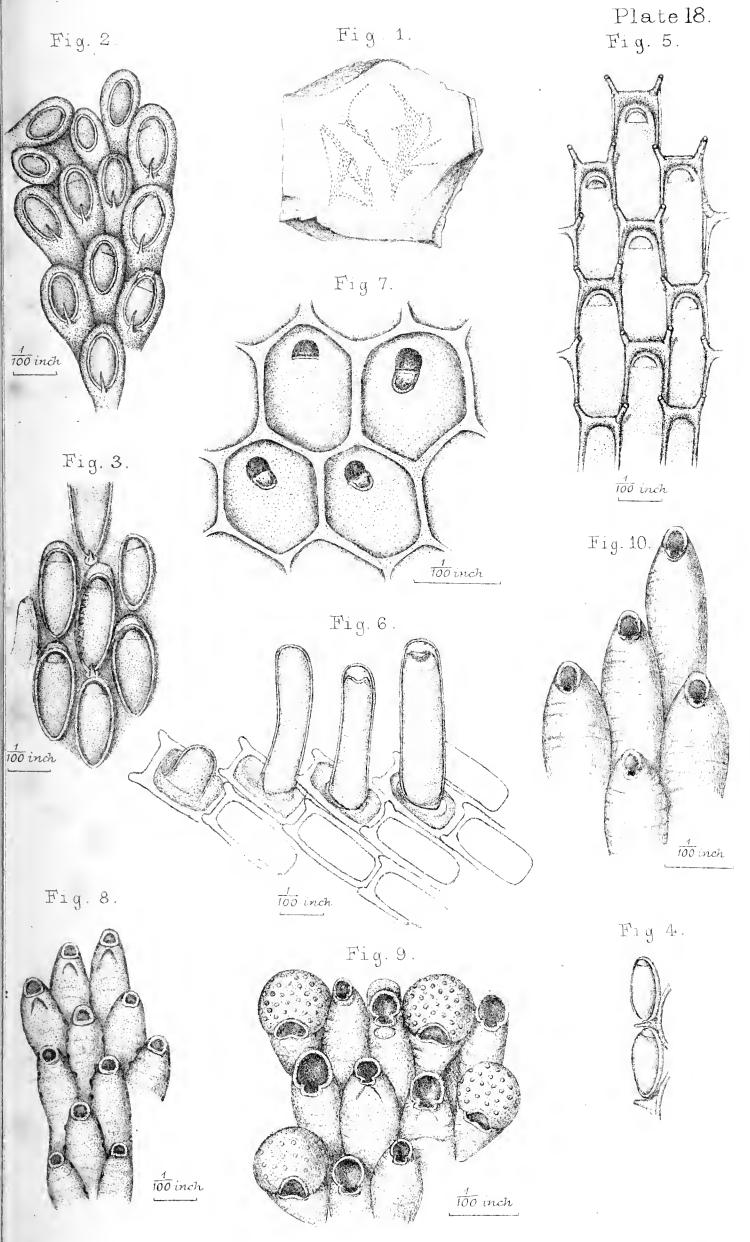
W. West & Co unp





# PLATE XVIII.

ыс. 1.	Membranipora monostachys, p. 131; nat. size, showing the linear habit of growth.
2.	——————————————————————————————————————
3.	, var. fossaria.
4.	
5.	MEMBRANIPORA MEMBRANACEA, p. 140.
6.	————, with a number of abnormal cells ("tower-zoœcia" of Nitsche).
7.	Membranipora hexagona, p. 143. After Busk.
8.	Schizoporella hyalina, p. 271; a colony with suborbicular orifice.
9.	developed cells.
10.	margin of the orifice deeply sinuated. See Plate XLV. figs. 2 and 3.



London, John Van Voorst, MDCCCLXXIX

T.H. del. A.T. Hollick lith.

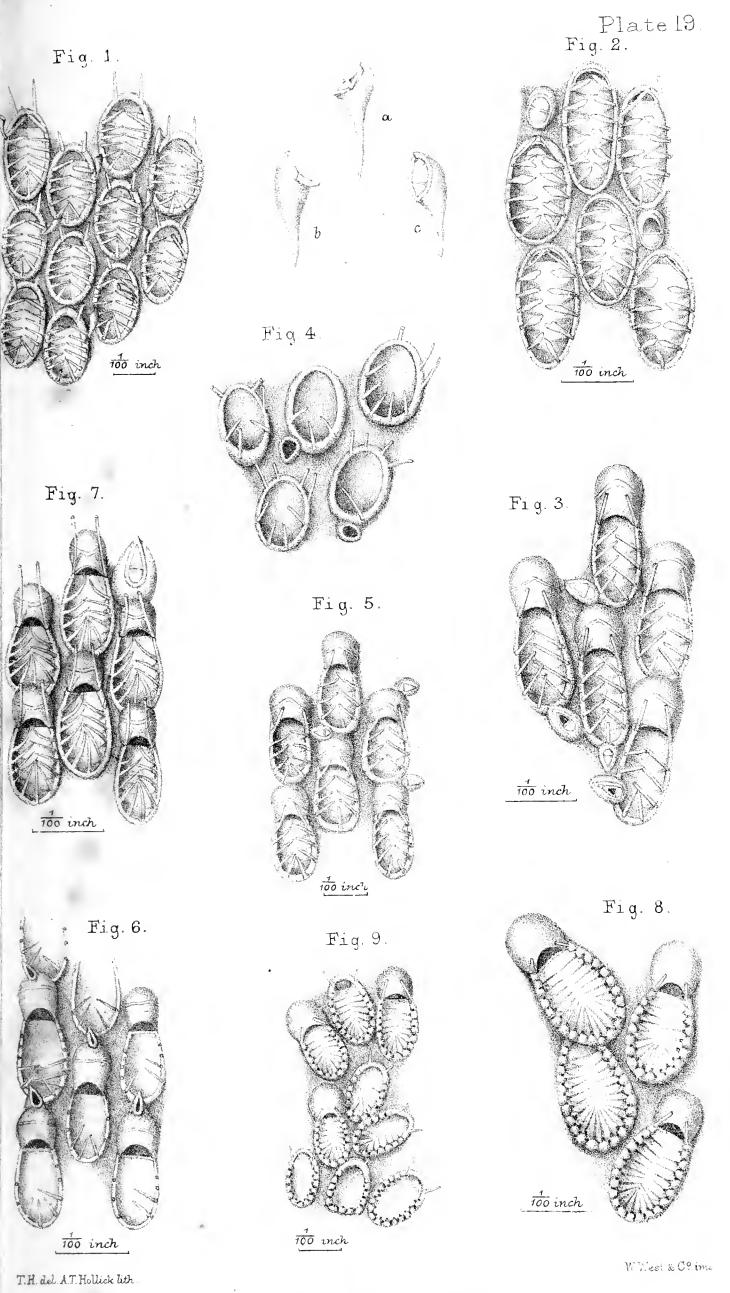
W West & Comp

,				
		,		
	•			
		<b>\</b>		
				. 4
				7
				*
			•	
				- 9
				145
	•	•	ţ	90
				À.
				4 776
	-		<u>~</u> .	10 10
				1 -
				• 1
			•	
				- 4
				100
			-	
				- 10
				24
				14
				100
				- 75
				- 4
				- 7
		•		
			•	
				·
		•		



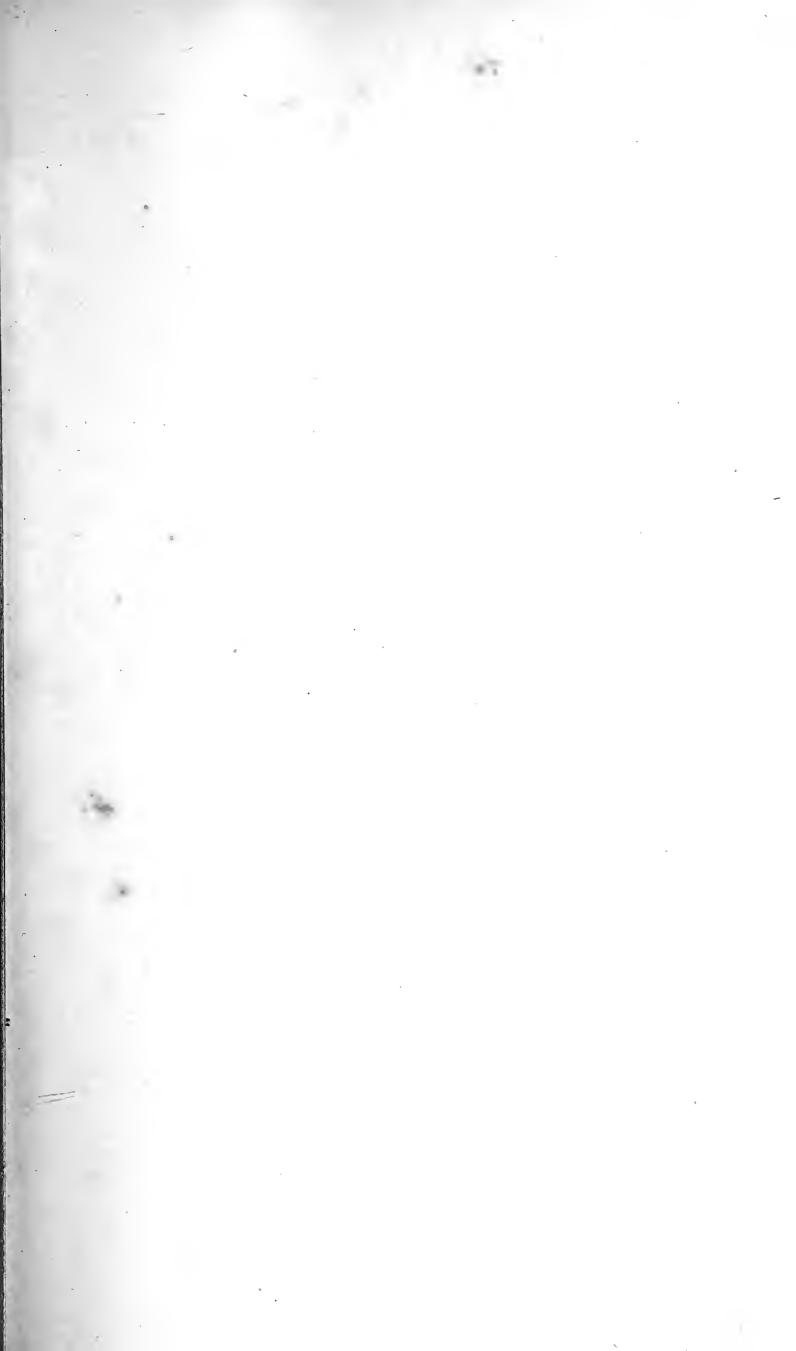
## PLATE XIX.

- 1. Membranipora spinifera, p. 149.
- a, b, c. , the pedunculate avicularia.
  - 2. Membranipora flustroides, p. 151.
  - 3-6. Membranipora lineata, p. 143.
    - 7. Membranipora craticula, p. 147.
  - 8, 9. Membranipora discreta, p. 152.



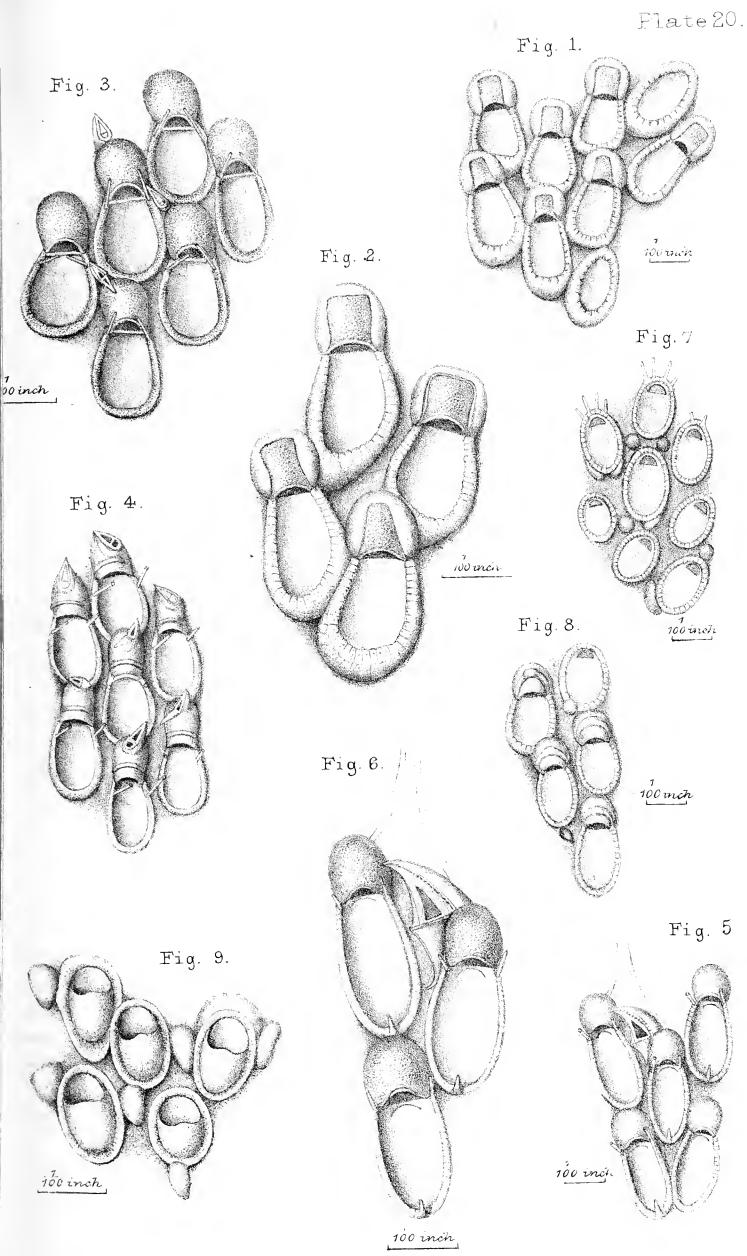
London Joan Van Vorst, MCCCCLXXIX.

			,		
			<b>k</b>		
					1
					•
				•	100
				•	4 "
					100
					- 10 A
	,				
			•		
		•			
			Y		
			•	•	



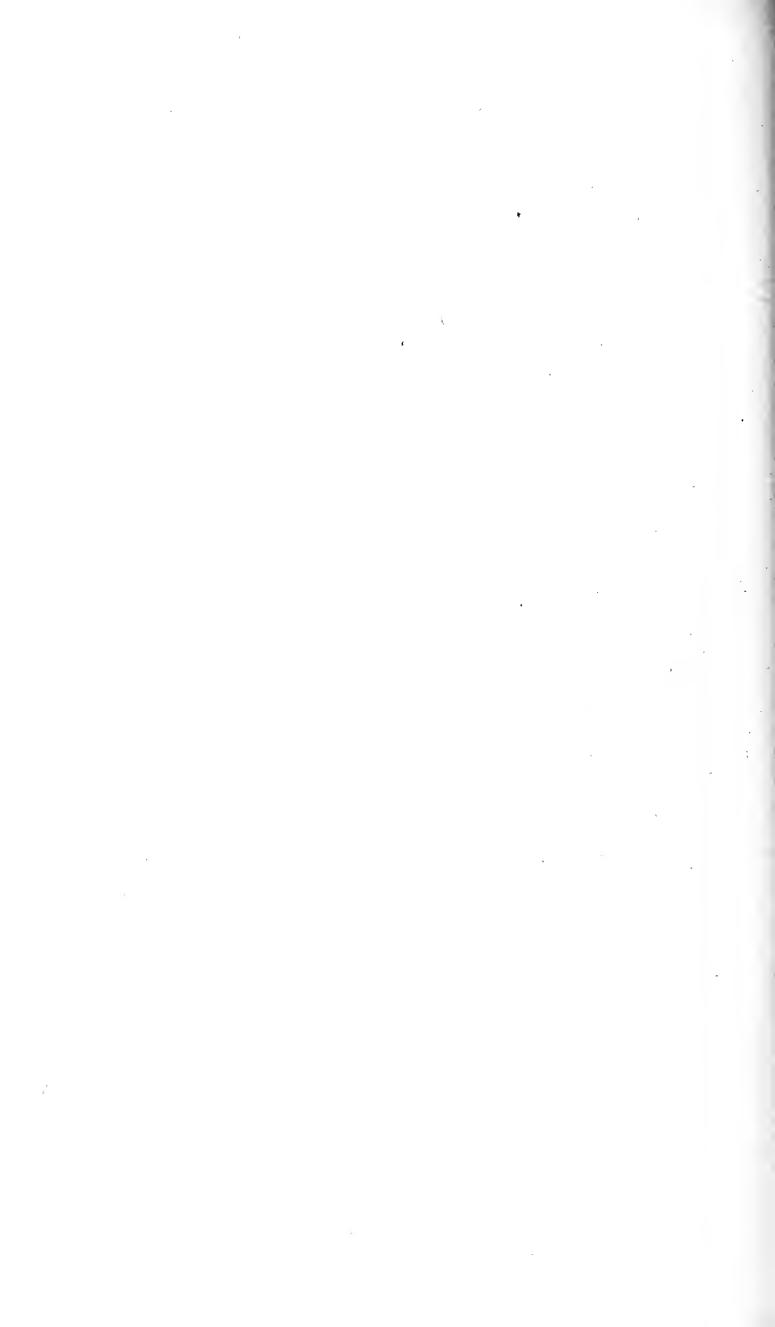
## PLATE XX.

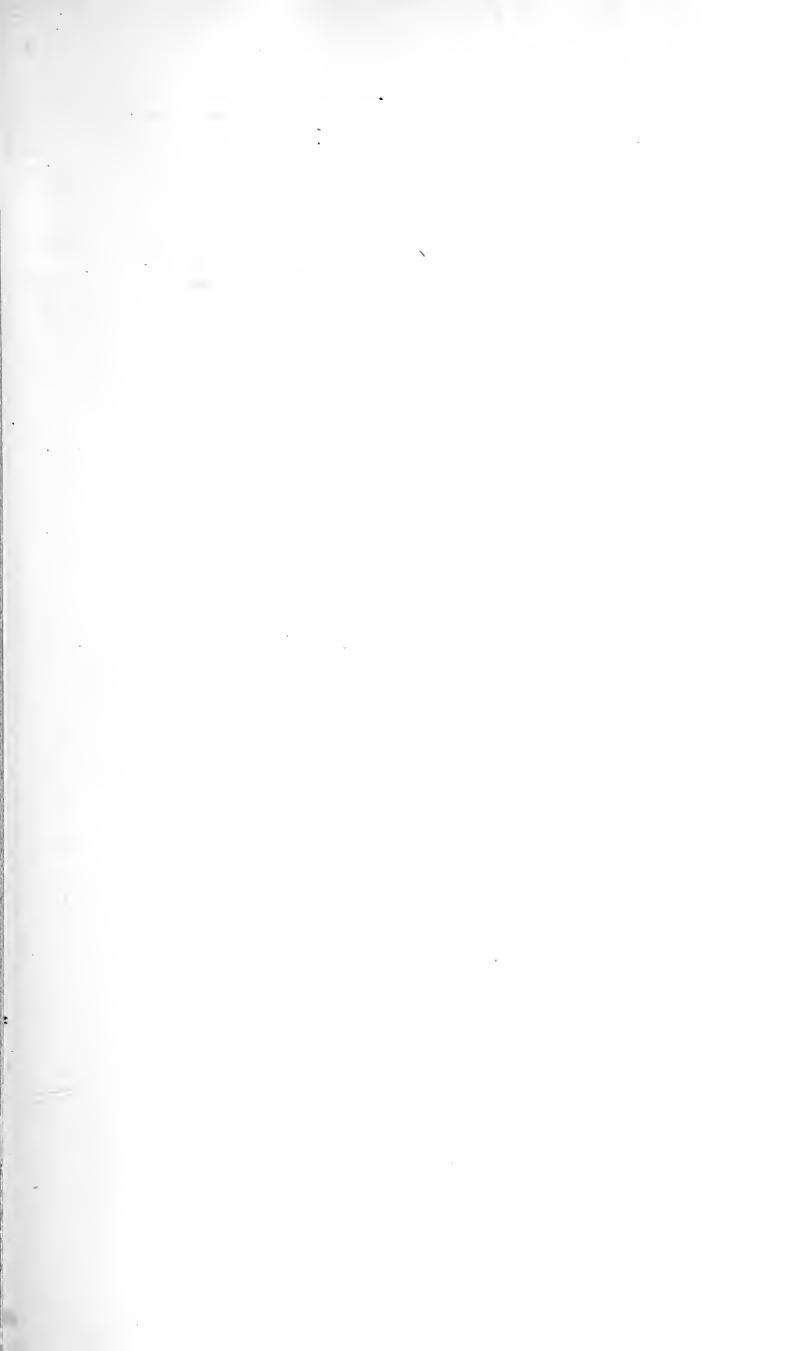
- 1, 2. Membranipora imbellis, p. 160.
  - 3. Membranipora Dumerilii, p. 156.
  - 4. Membranipora unicornis, p. 154.
- 5, 6. Membranipora curvirostris, p. 153.
- 7, 8. Membranipora solidula, p. 158.
  - 9. Membranipora nodulosa, p. 170.



T.H.del. A.T. Hollick lith.

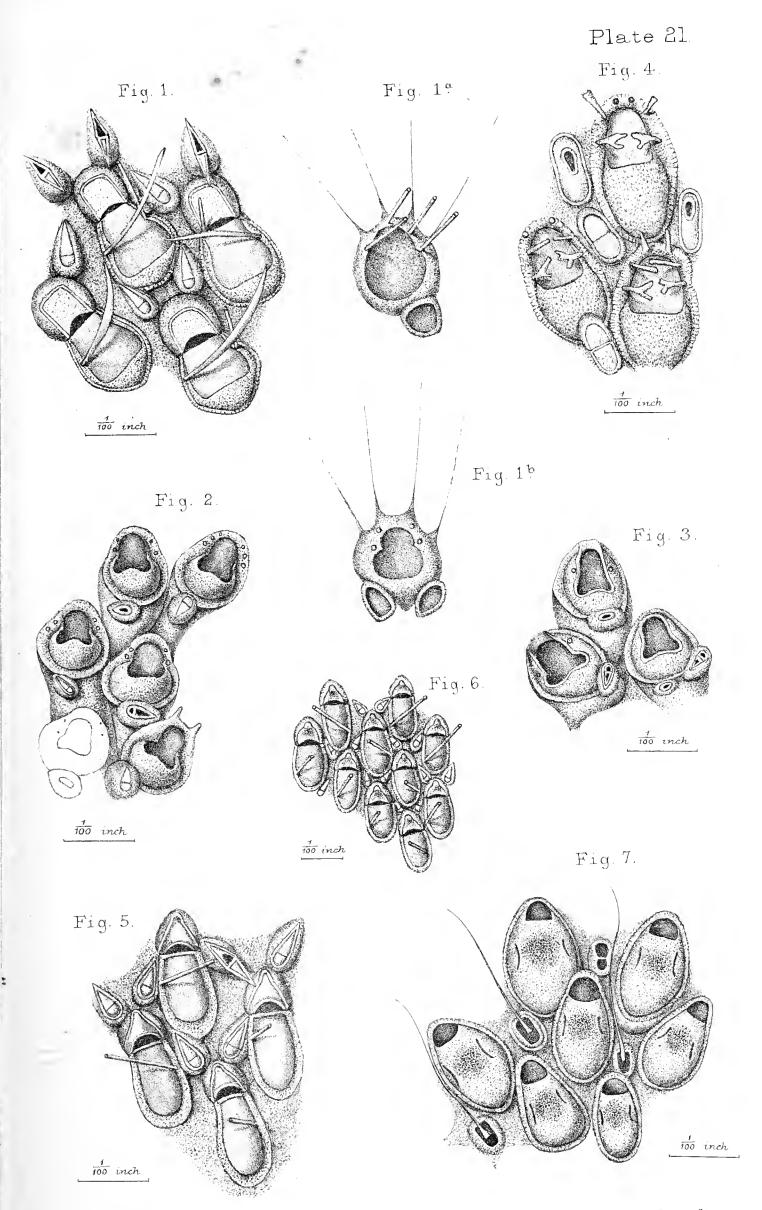
W.West & C? imp.





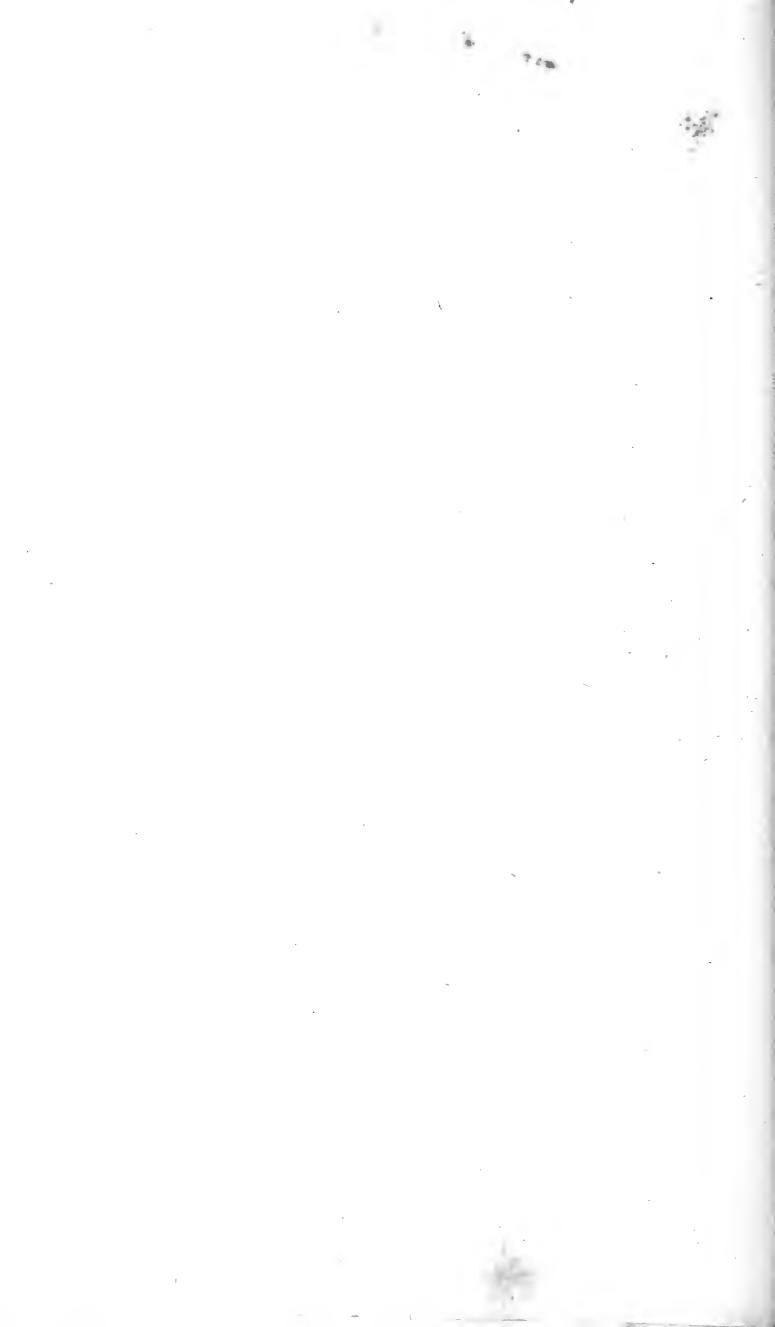
#### PLATE XXI.

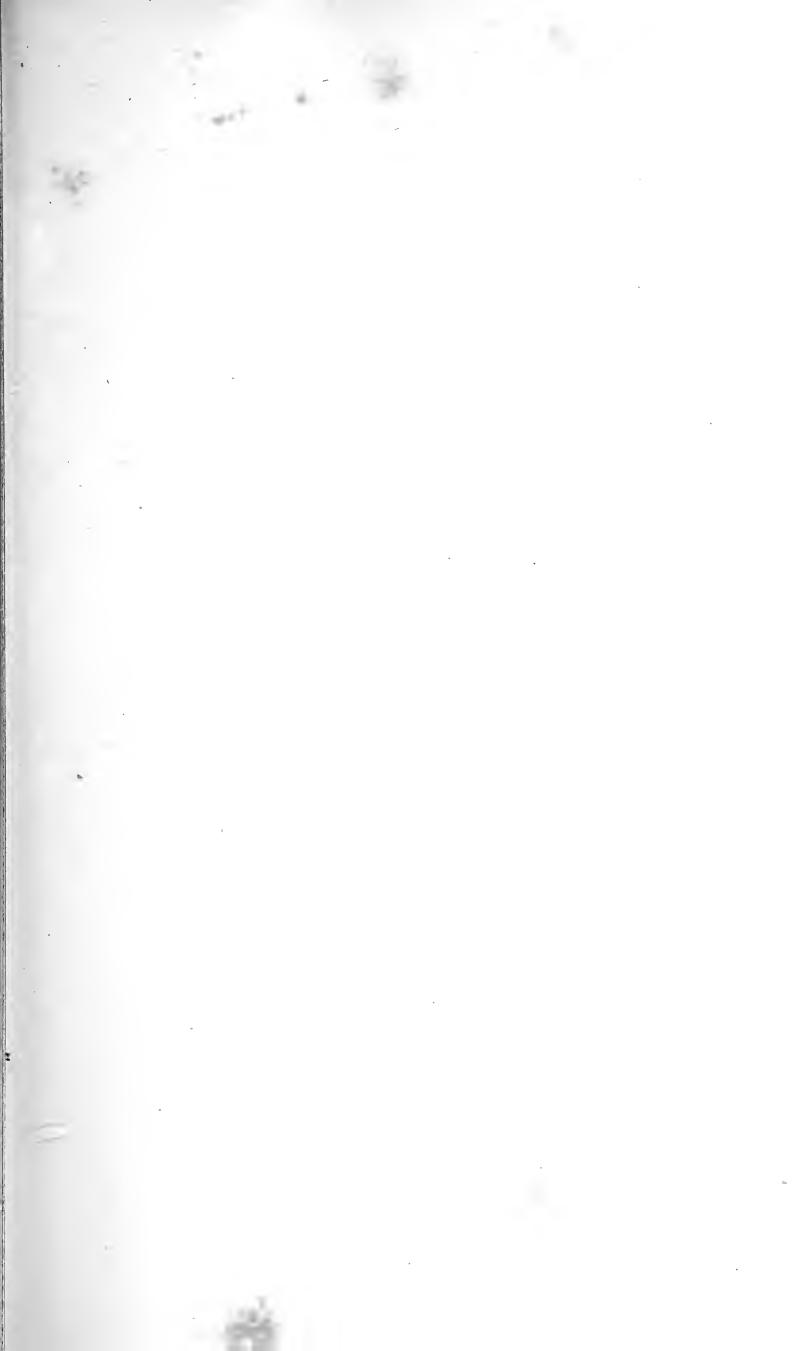
- 1. Membranipora Flemingii, p. 162; from a fully developed specimen.
- 1 a, 1 b. ———, young zoœcia with the full complement of spines; avicularia partially developed.
  - 2, 3. ———, var., showing the produced portions of the cell below.
    - 4. Membranipora cornigera, p. 164. See Plate XXII. fig. 4.
  - 5, 6. Membranipora aurita, p. 159.
    - 7. Setosella vulnerata, p. 181.



T.H. del. A.T. Hollick lith

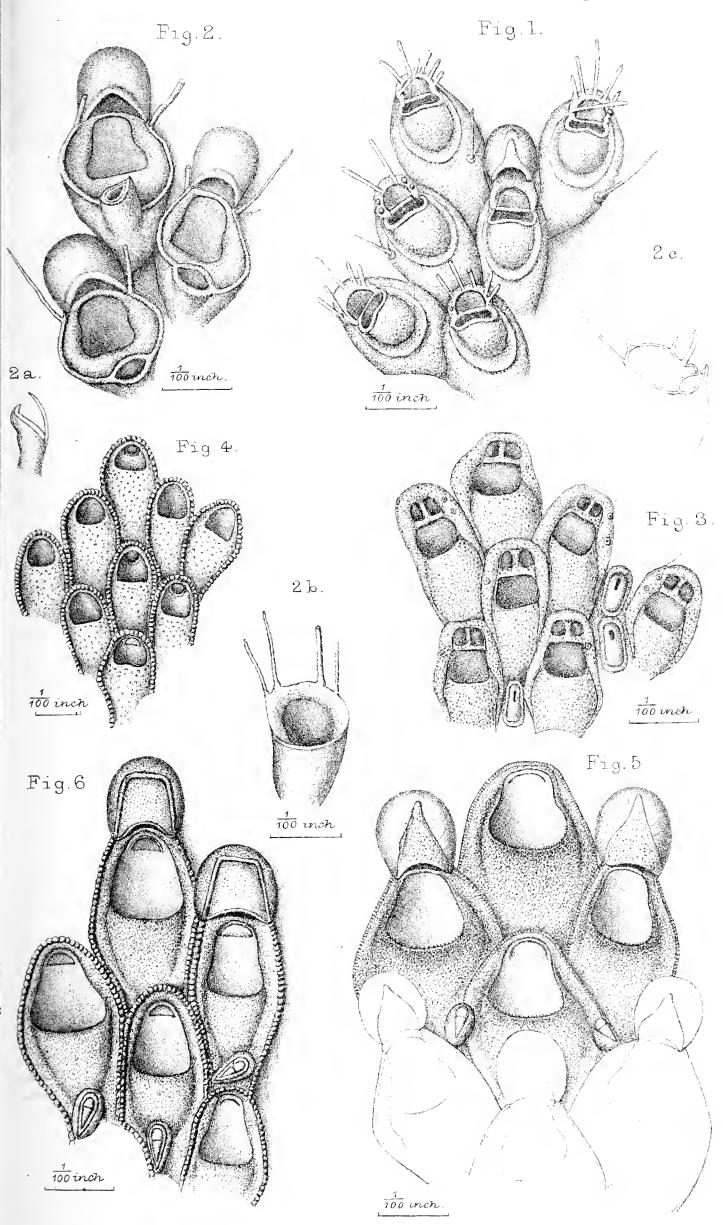
W. West & C? imp.





# PLATE XXII.

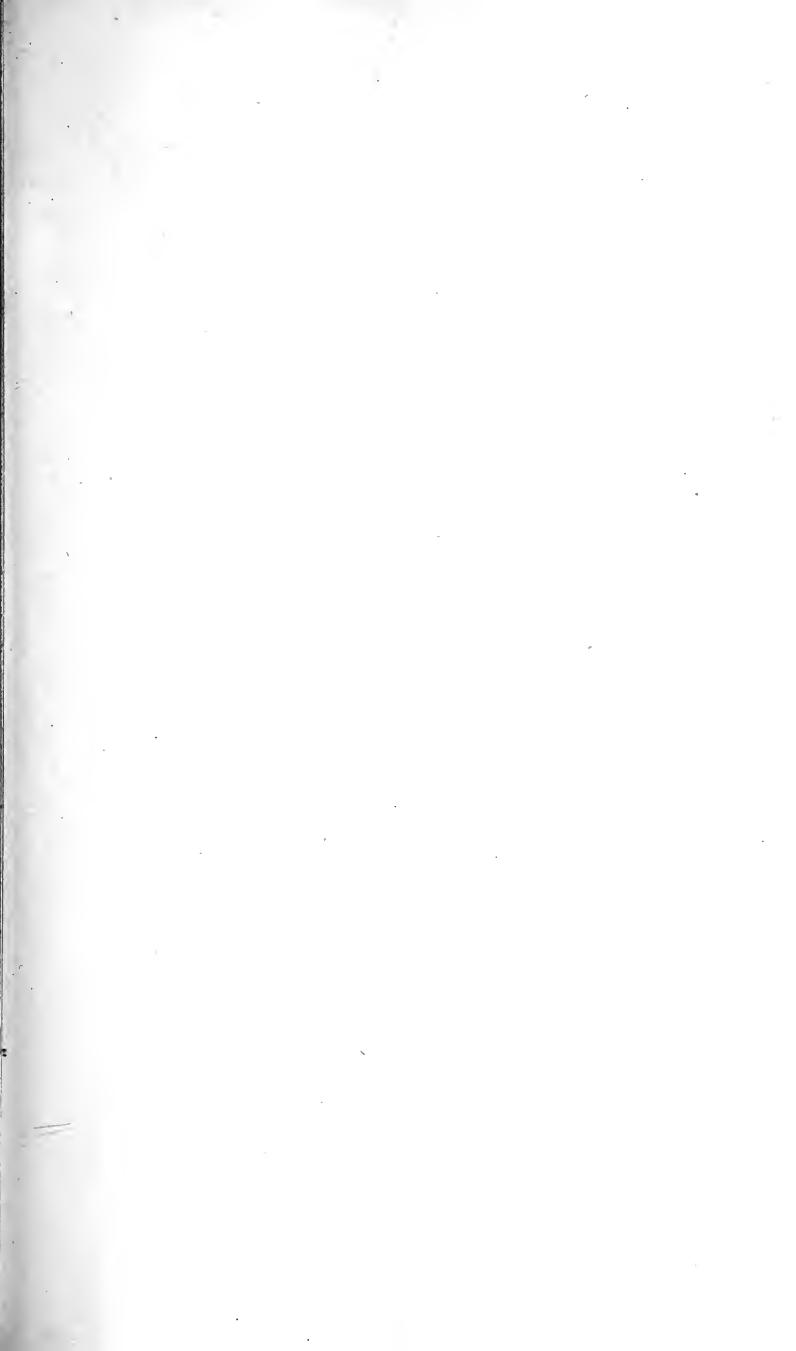
)	1. Megapora ringens, p. 172.
	2. Membranipora minax, p. 169.
	2 a. ———, avicularium.
$2 b_{.}$	, 2 c. ———, young cells.
	3. Membranipora cornigera, p. 164; from an old specimen, showing the structure of the upper portion of the aperture.
	4. Membranipora Rosselii, p. 166.
	5. Membranipora trifolium, p. 167.
	6. ————, var. a (quadrata).



T.H. del. A.T. Hollick lith.

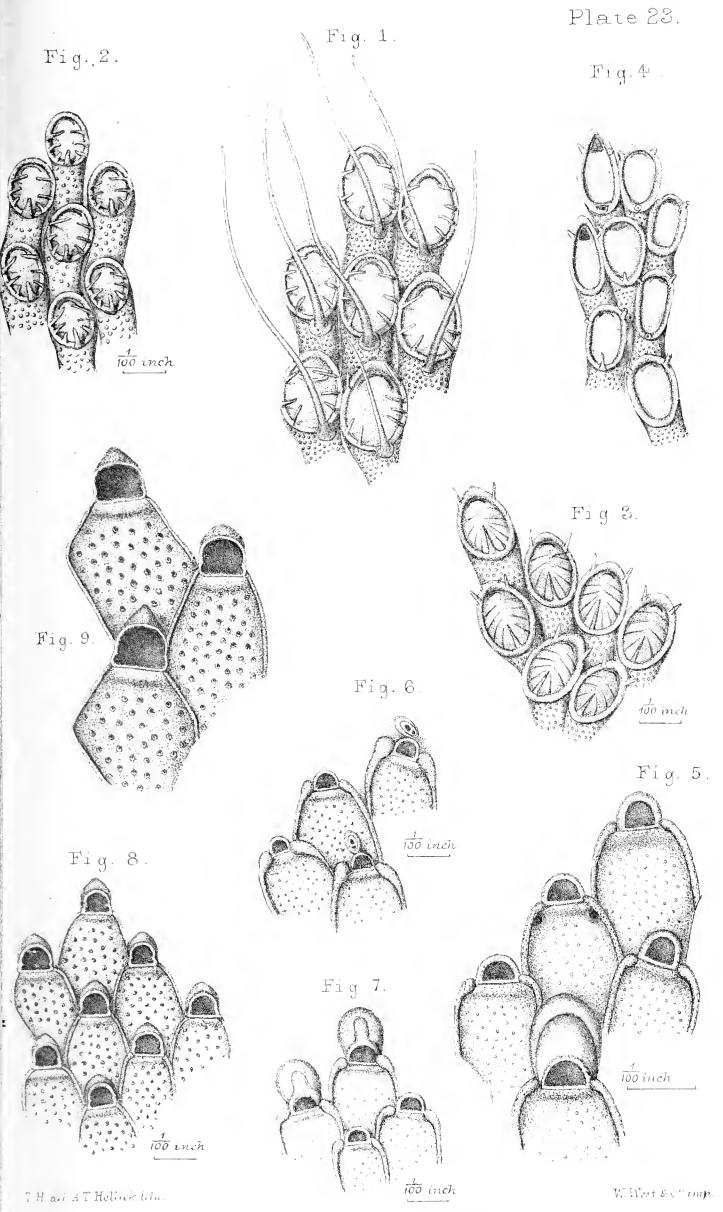
W. West & Co. imp.

			,
	,		
		,	
·			
			, -1
			• (
			4
			4
		i	
•		,	ə 1
	-	<u> </u>	
			*
	·	_	
		-	
		-	

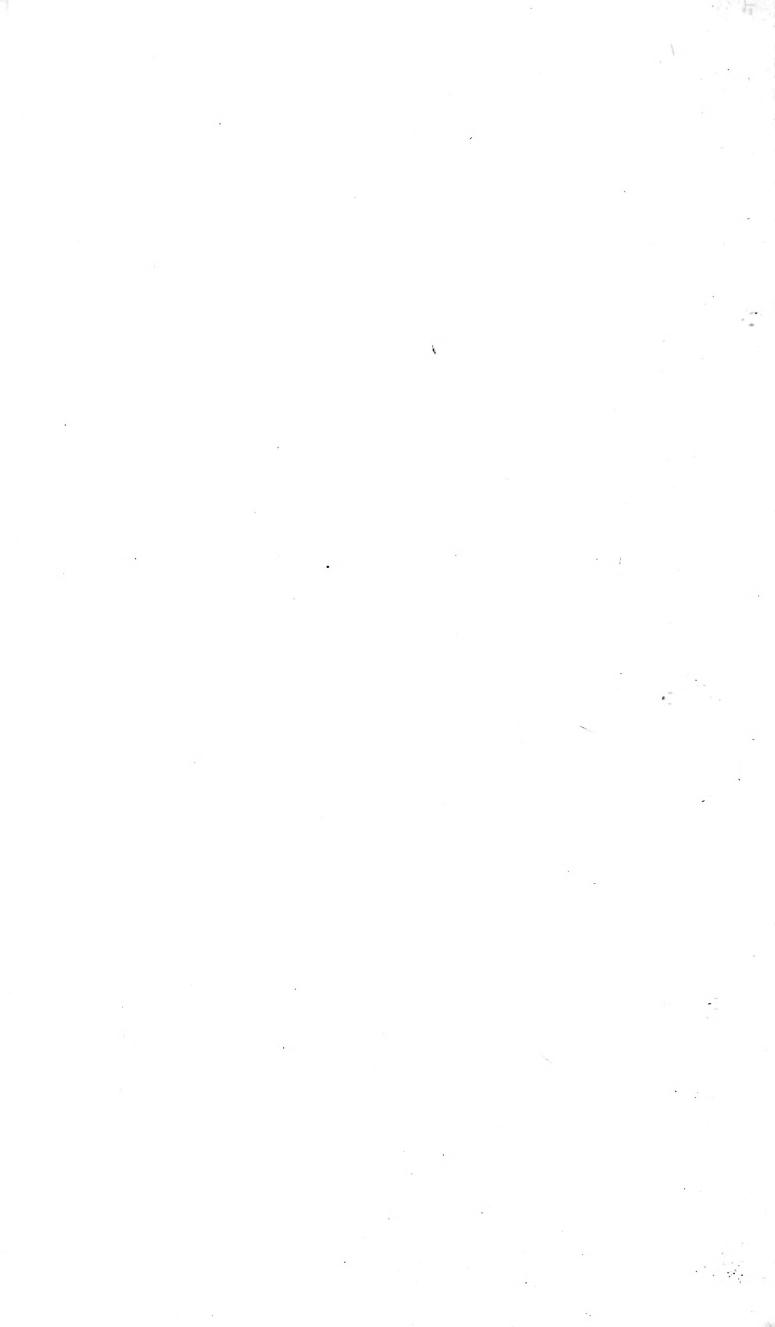


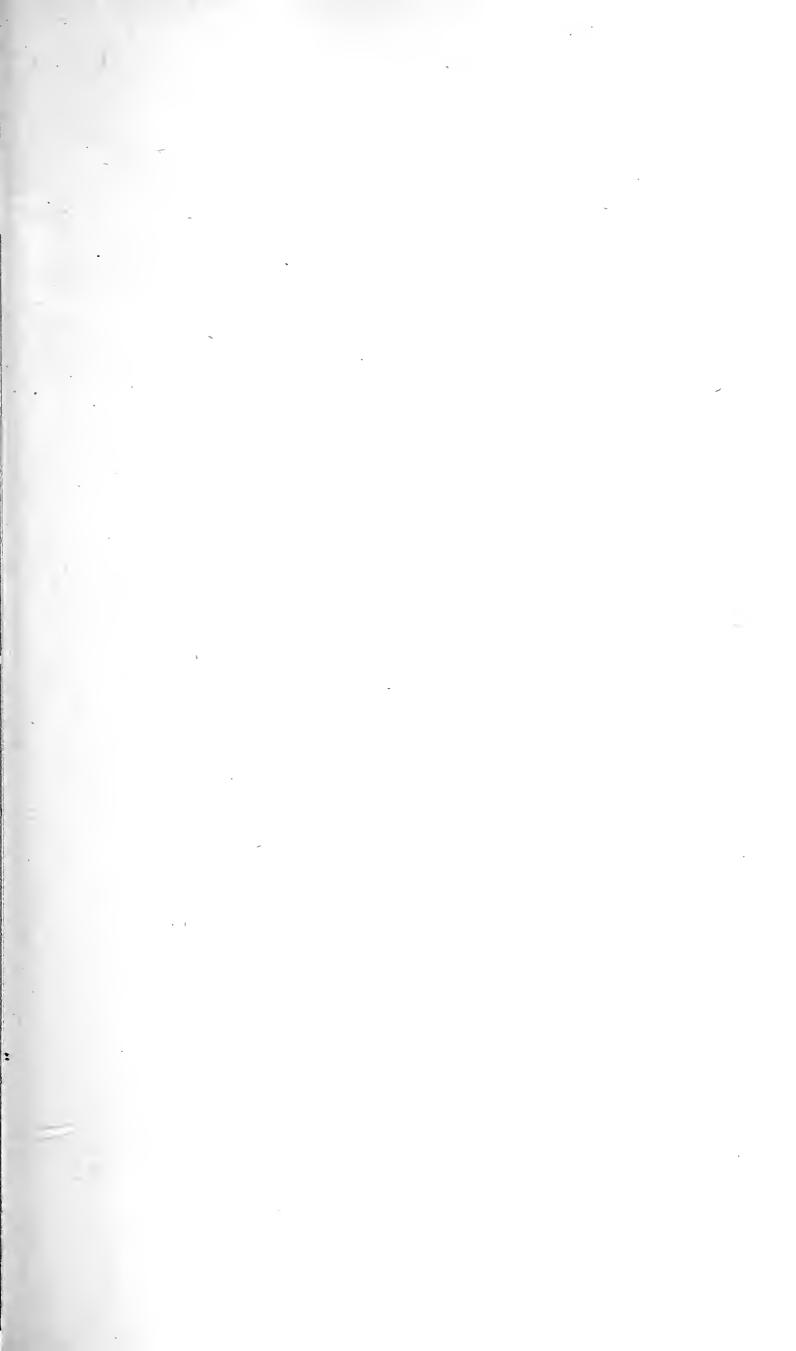
# PLATE XXIII.

FIG. 1.	Membranipora pilosa, p. 137; normal form.
2, 3.	——————————————————————————————————————
4.	———, var. with three spines.
5.	Micropora coriacea, p. 174.
6.	, with avicularia.
7.	————, with oœcia.
8.	MICROPORA COMPLANATA, p. 175.
9.	———, more highly magnified, to show the constriction of the orifice.



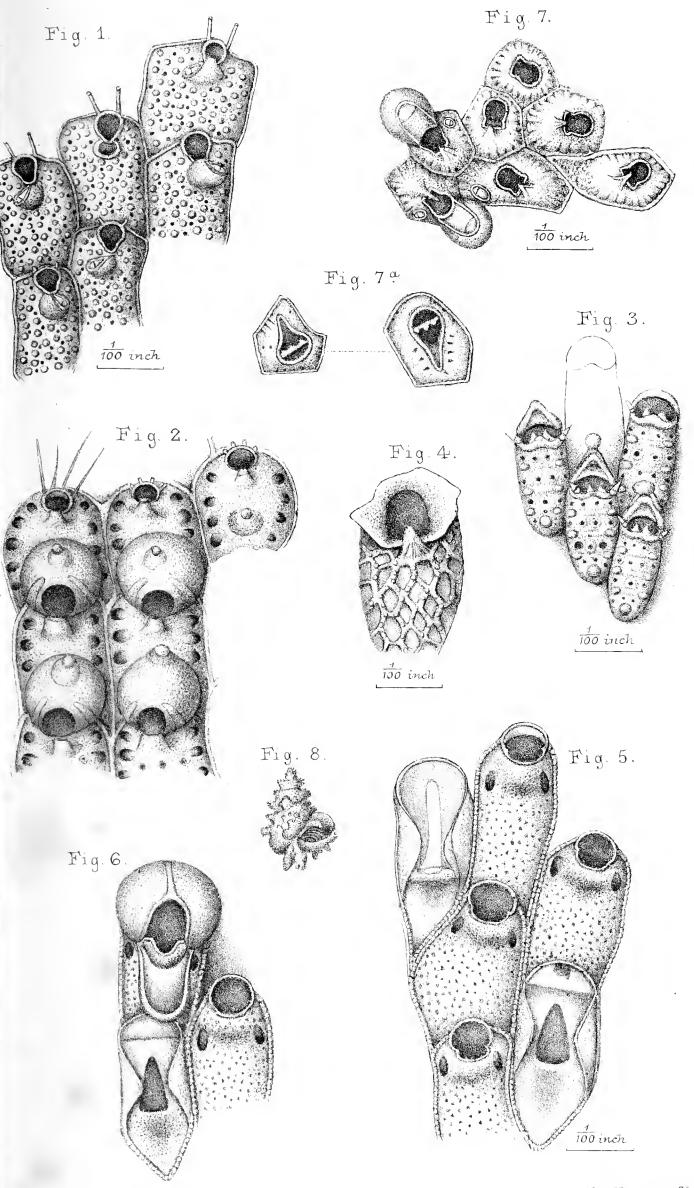
Lenzen - John Van Voorst, MDCCCLHXIY.





#### PLATE XXIV.

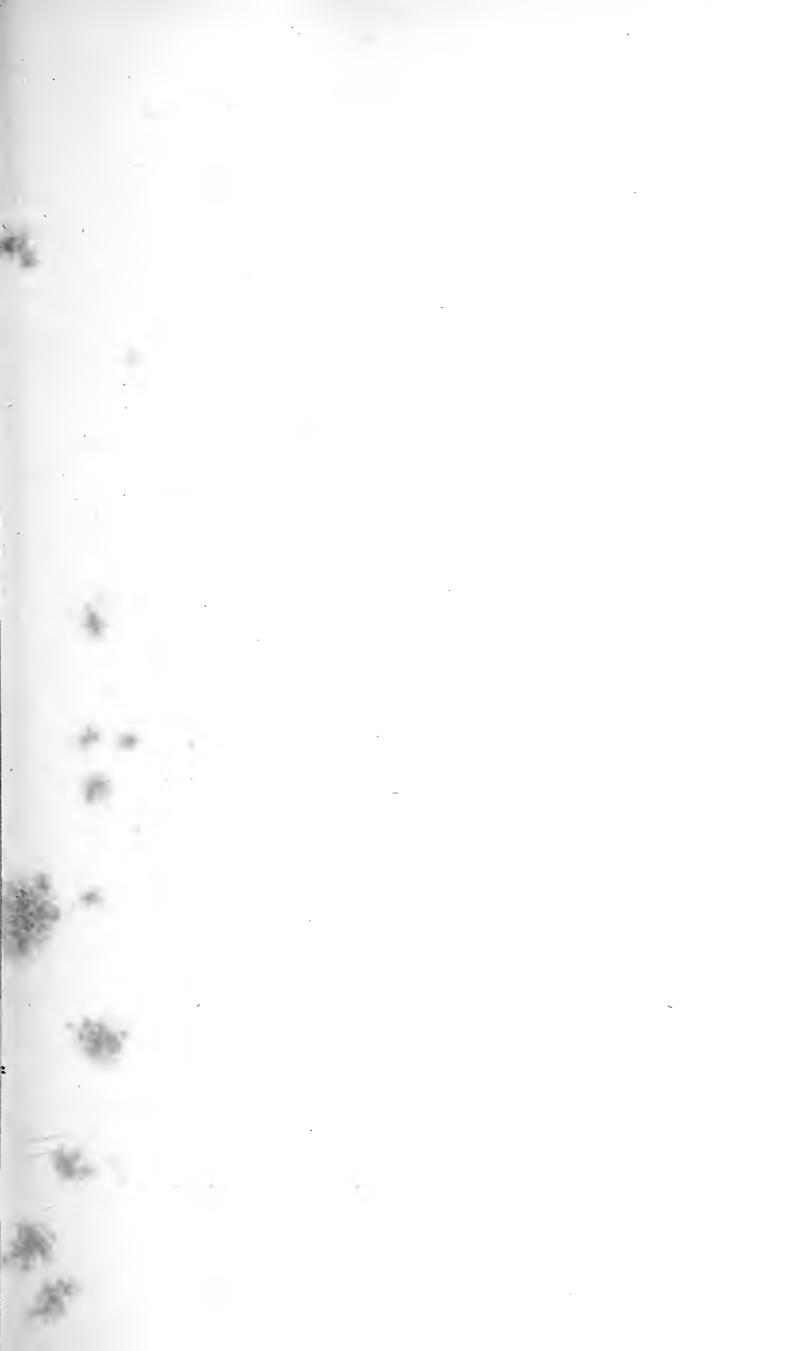
- 1. Schizoporella linearis, p. 247; var. with a single avicularium borne on the side of a short rostrum. See Plate XXXVIII.
- 2. Schizoporella umbonata, p. 264. After Busk.
- 3. Cribrilina punctata, var., p. 190. See Plate XXVI.
- 4. Lepralia Pallasiana, p. 297; var. with much produced peristome. See Plate XXXIII.
- 5. Steganoporella Smittii, p. 178; with avicularia.
- 6. ———, showing the occium with the lid thrown back.
- 7. LEPRALIA EDAX, p. 311.
- 7 a. — , the large, pointed avicularia. After Smitt.
- 8. ——, nat. size, incrusting a univalve shell.



West Newman & Counp.

T.H. del A.T. Hollick lith

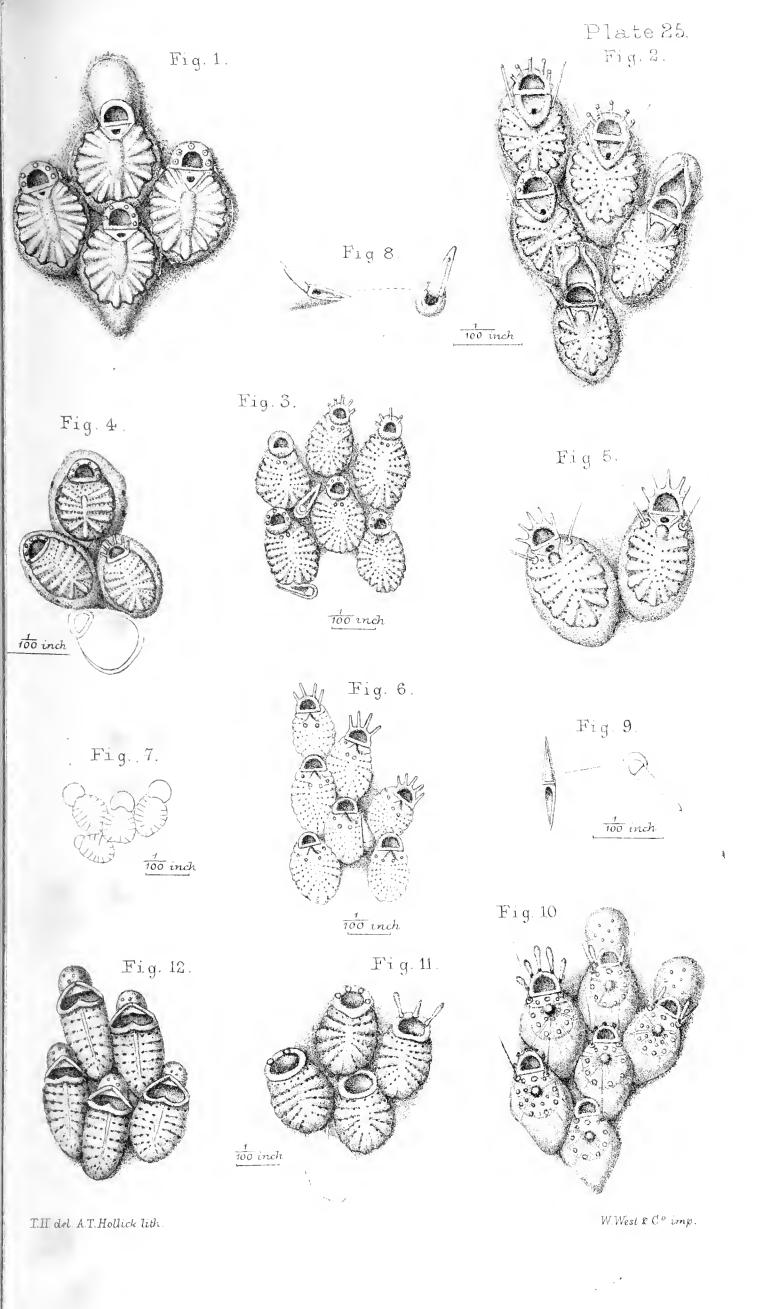




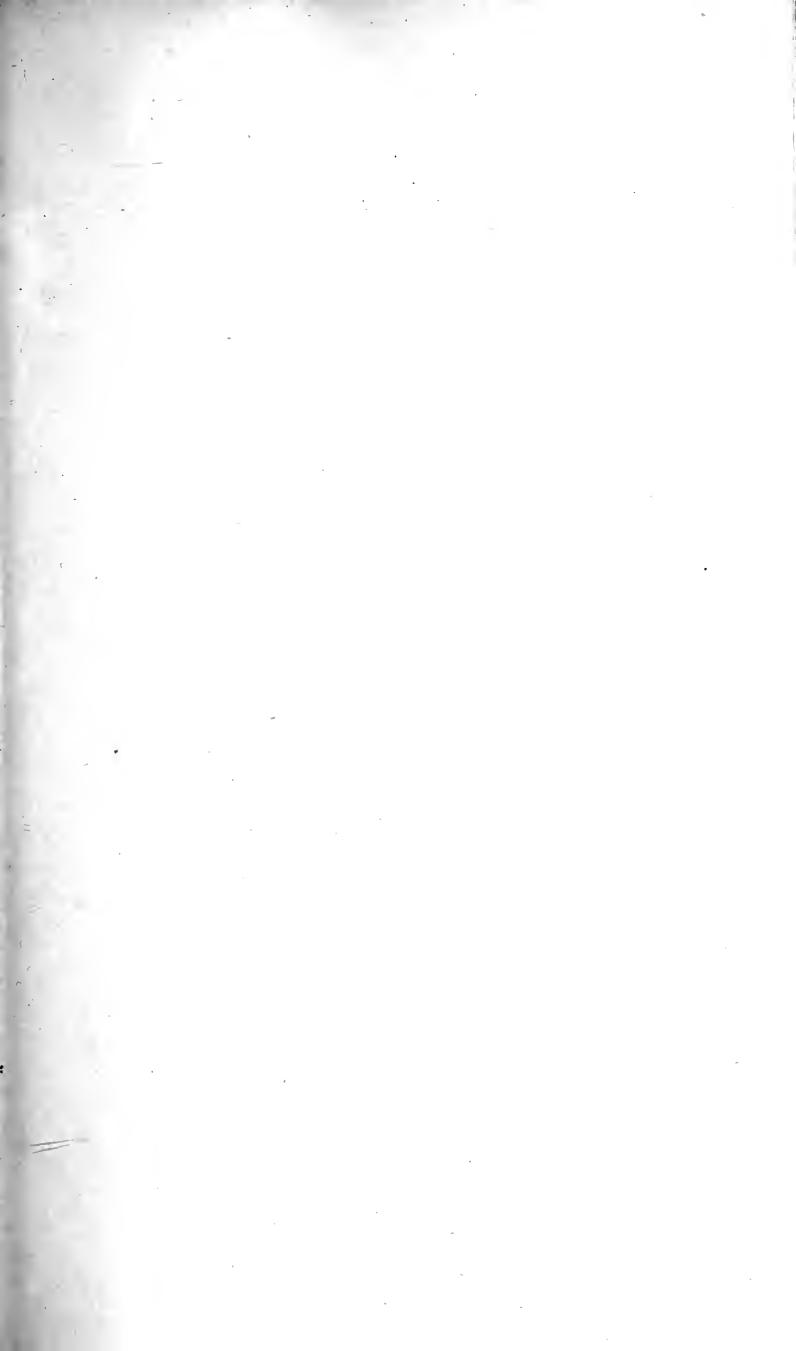
#### PLATE XXV.

CRIBRILINA RADIATA, p. 185; innominata form.
 —, radiata form.
 —, var.
 — with vibraculoid setæ.
 —, radiata form.
 —, dwarf var.
 —, avicularia, showing the varieties of form.
 CRIBRILINA GATTYÆ, p. 198.

11, 12. Cribrilina annulata, p. 193.

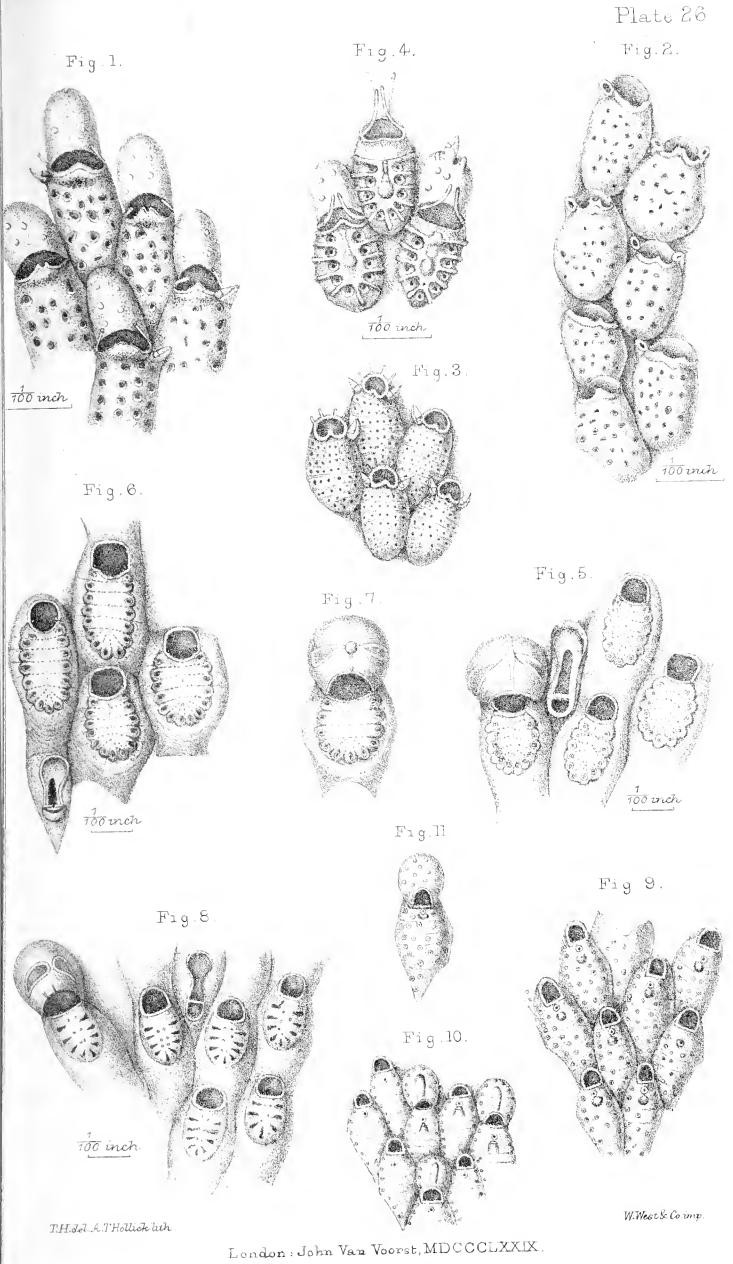


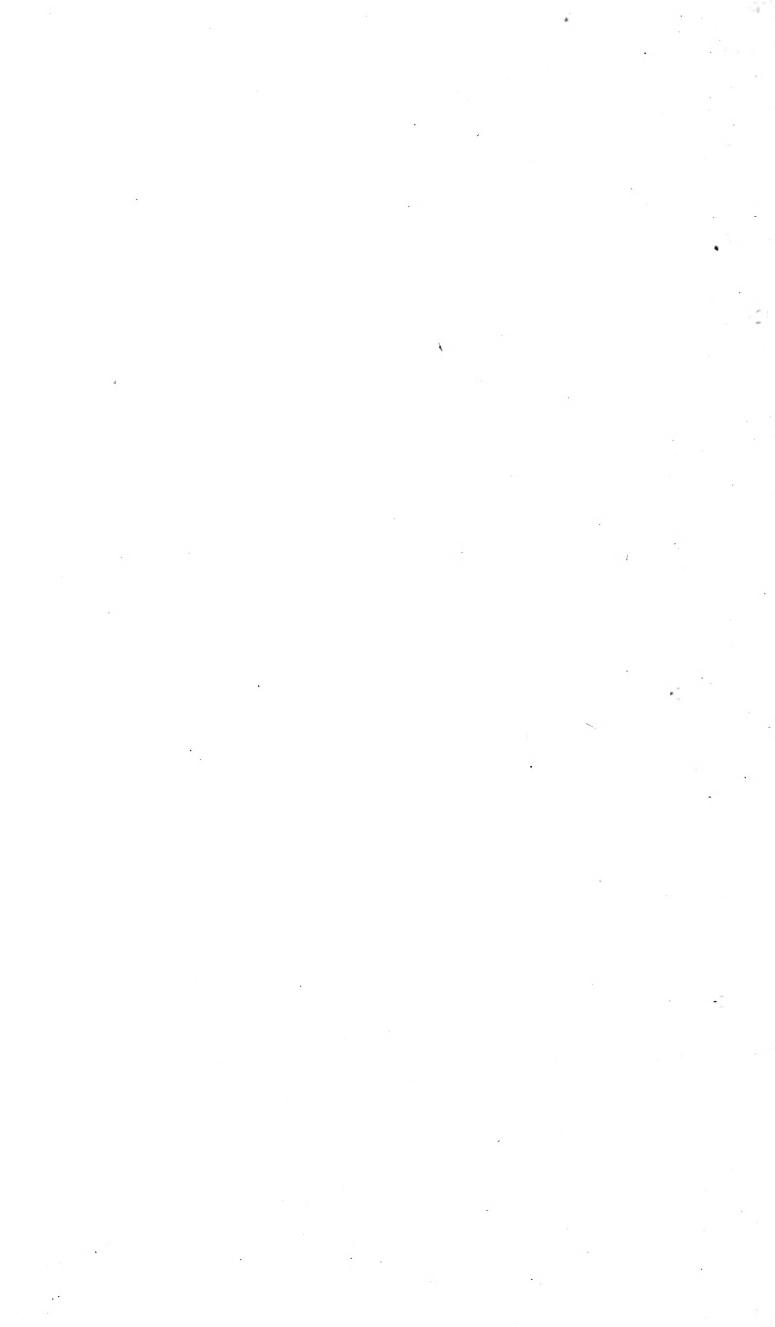
. \



### PLATE XXVI.

1-3. Cribrilina punctata, p. 190.
 See Plate XXIV. fig. 3.
4. ———, var. α.
5-7. Cribrilina figularis, p. 196.
8. ———, var. α ( fissa).
9. Microporella impressa, p. 214.
 See Plate XXIX. figs. 10, 11.
10. ———, var. β (glabra).
11. ———, cell with oœcium.

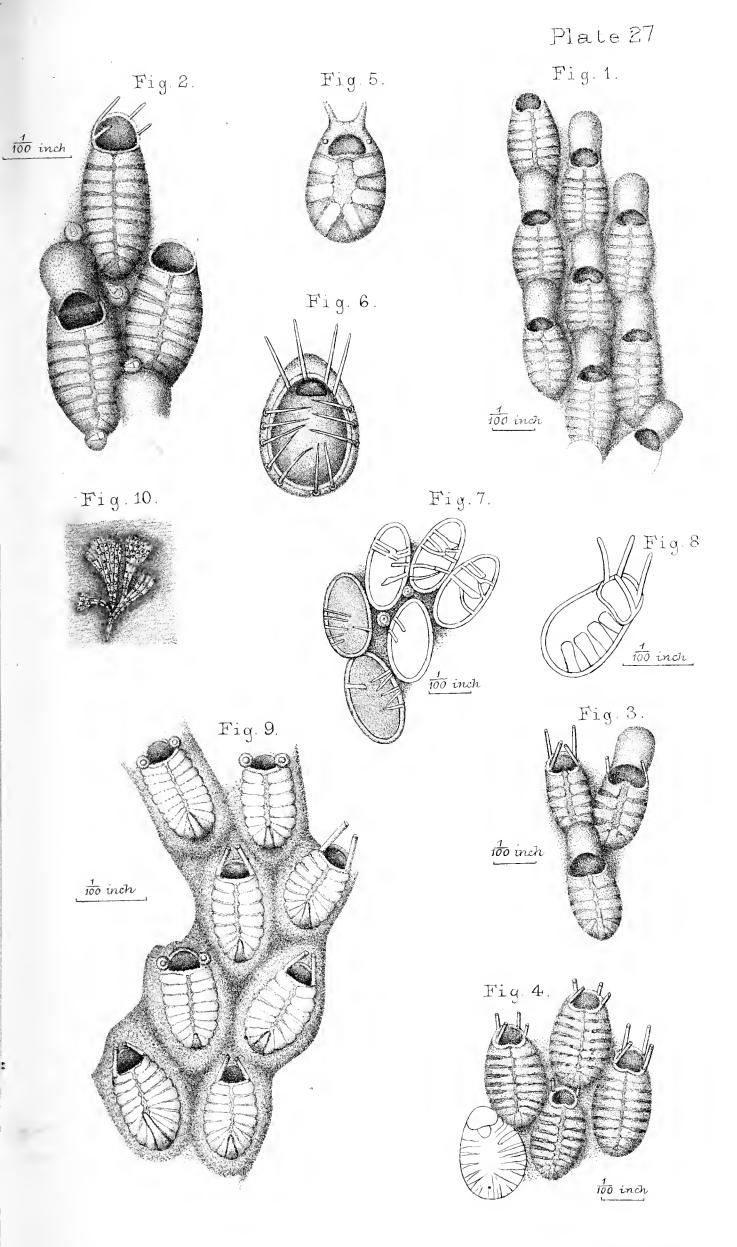






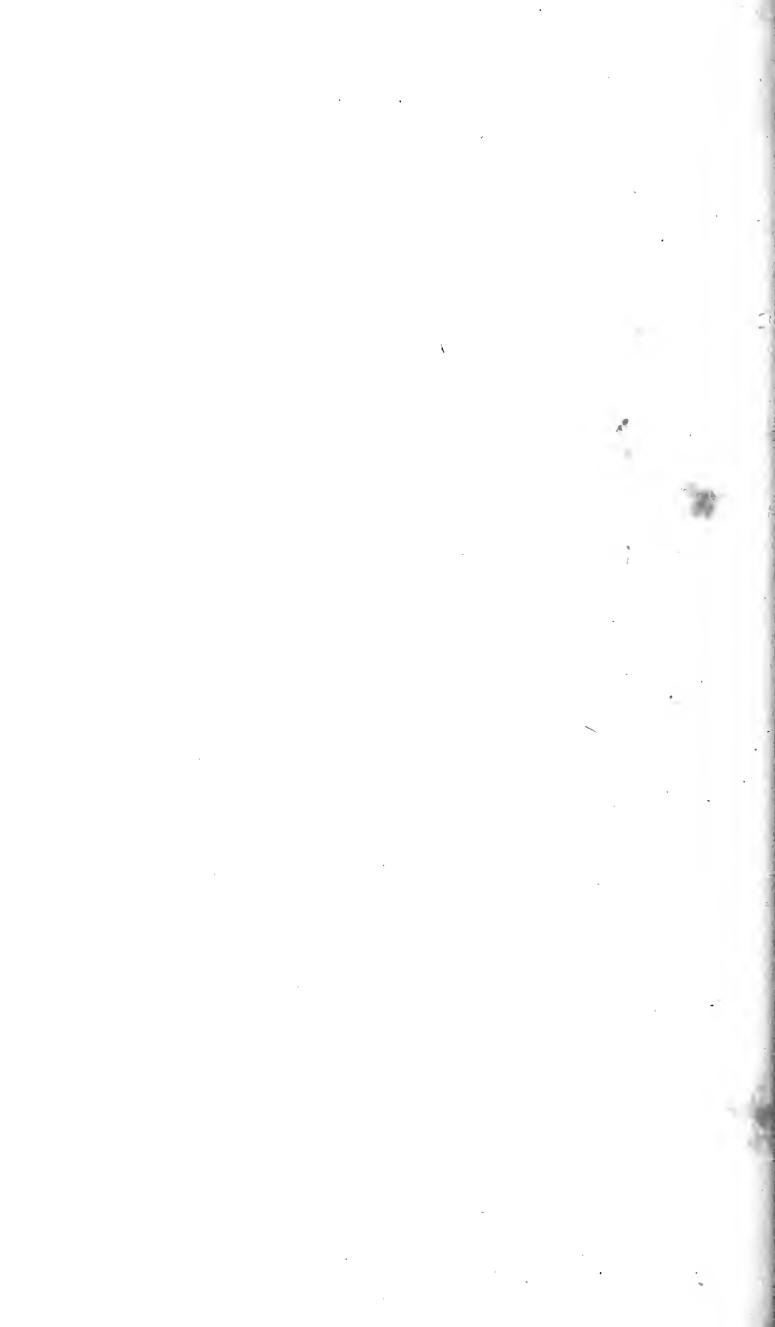
## PLATE XXVII.

FIG.	
1-4.	Membraniporella nitida, p. 200; various forms.
5.	, var. with small number of ribs.
6.	, primary cell.
7.	, group of cells in an early stage.
8.	, outline showing the structure of the cell.
9.	Membraniporella melolontha, p. 202.
10,	, nat. size.



T.H. del.A.T.Hollick lith.

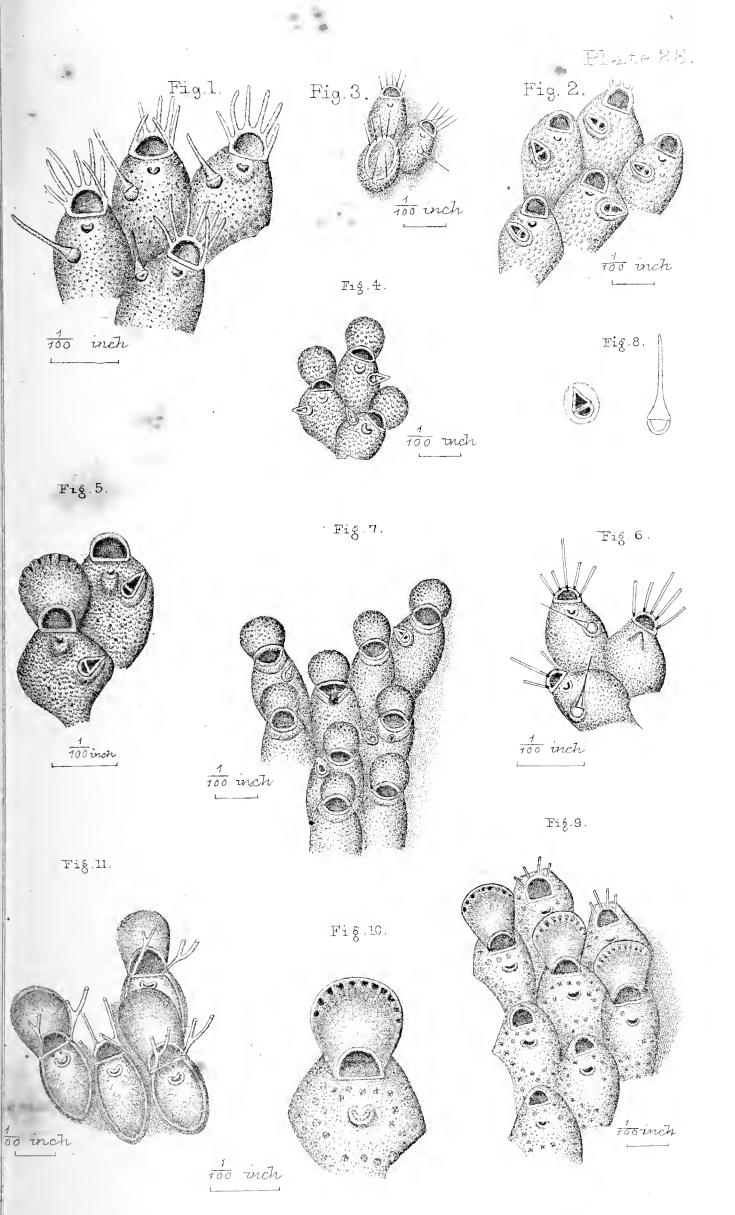
West, Newman & C' my





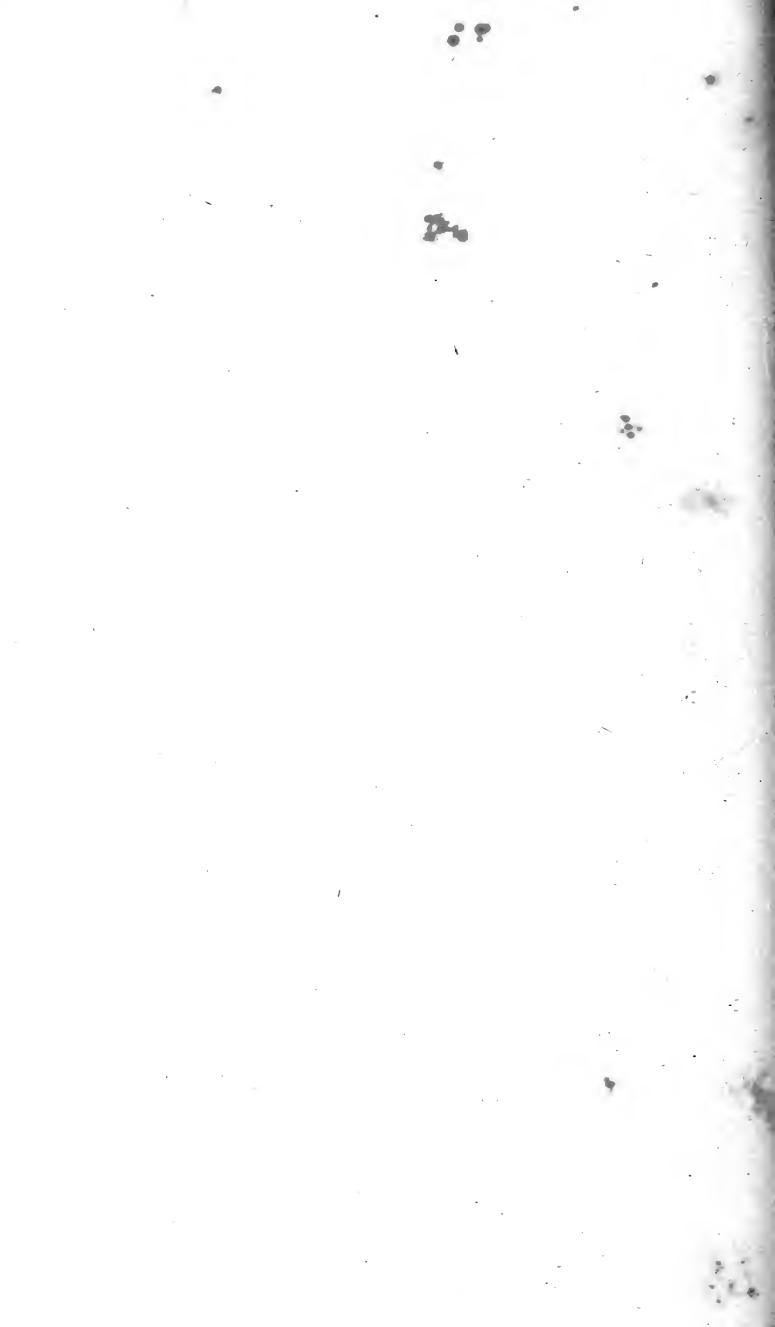
# PLATE XXVIII.

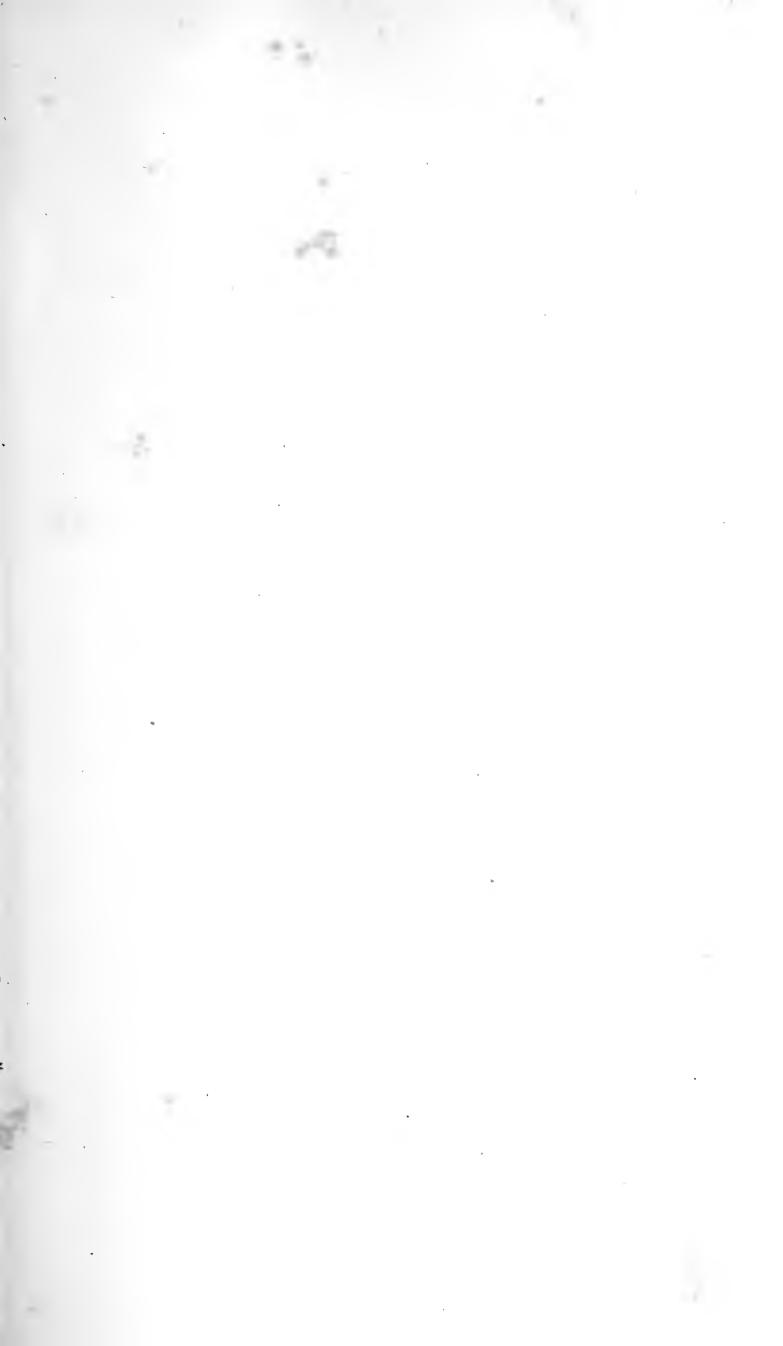
FIG.	
1.	MICROPORELLA CILIATA, p. 206.
2.	, granular var. with normal avicularia.
3.	——, primary cell.
4.	—, dwarf var.
5.	, var. with umbo and areolated ovicell.
6.	————, Australian var.
7.	, var. Personata.
8.	, two forms of avicularium.
9, 10.	Microporella Malusii, p. 211.
	See Plate XXIX. fig. 12.
11.	——, var. β (VITREA).



T.H. del. A.T. Holliche . lith .

West, Nerman & C: imp.



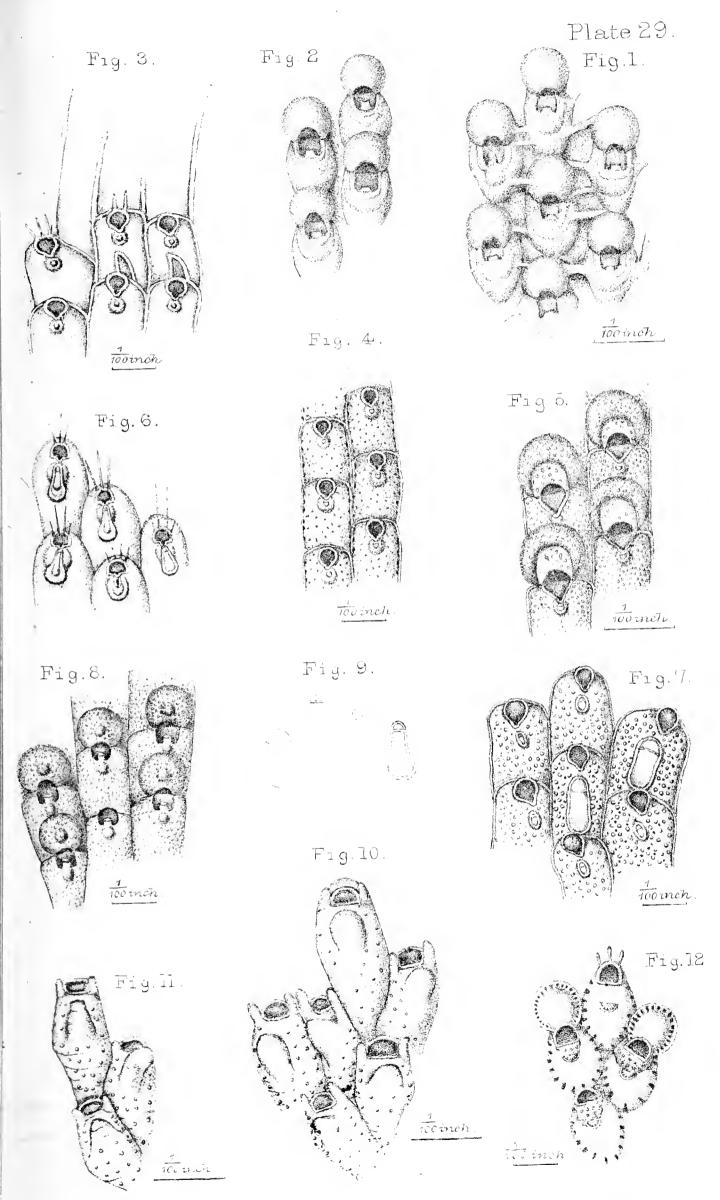


### PLATE XXIX.

PORELLA MINUTA, p. 326.
 SCHIZOPORELLA AURICULATA, p. 260.
 — with spatulate avicularia.
 — , var. α (оснкасеа).
 — , var. β (сиѕрідата).
 — , showing the different forms of avicularium.

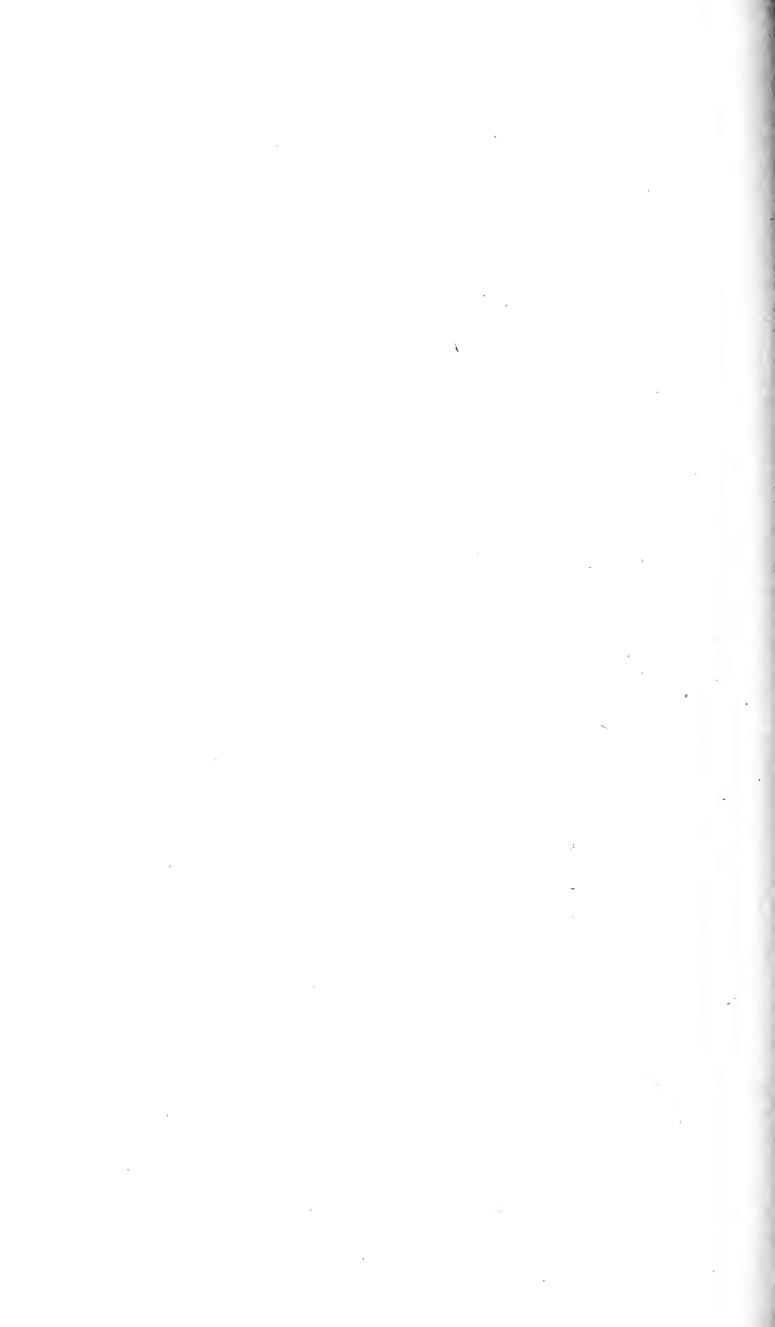
- 10, 11. Microporella impressa, p. 214; var. a.
  - 12. MICROPORELLA MALUSII, p. 211, var. invested by a smooth calcareous crust \*.

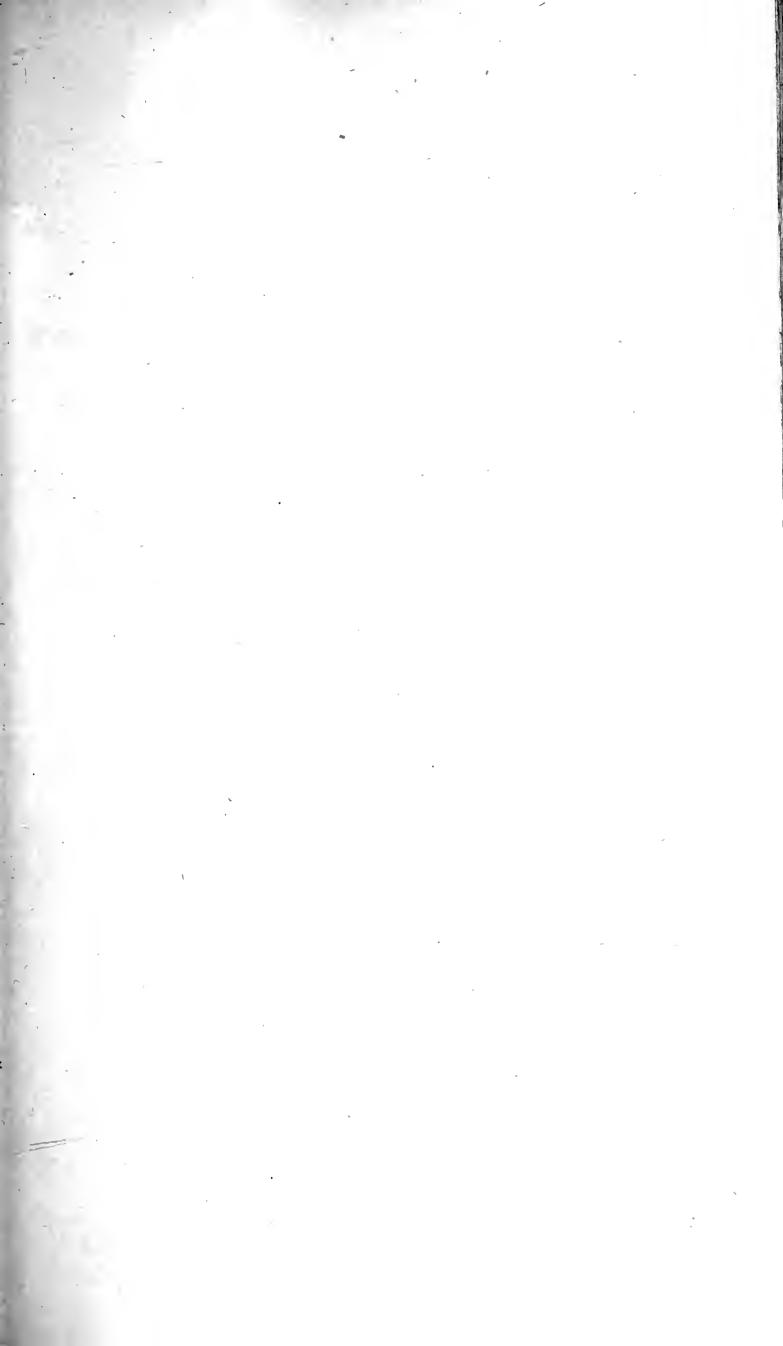
<sup>\*</sup> This figure is not referred to in the text.



TH. act A T Holice Win

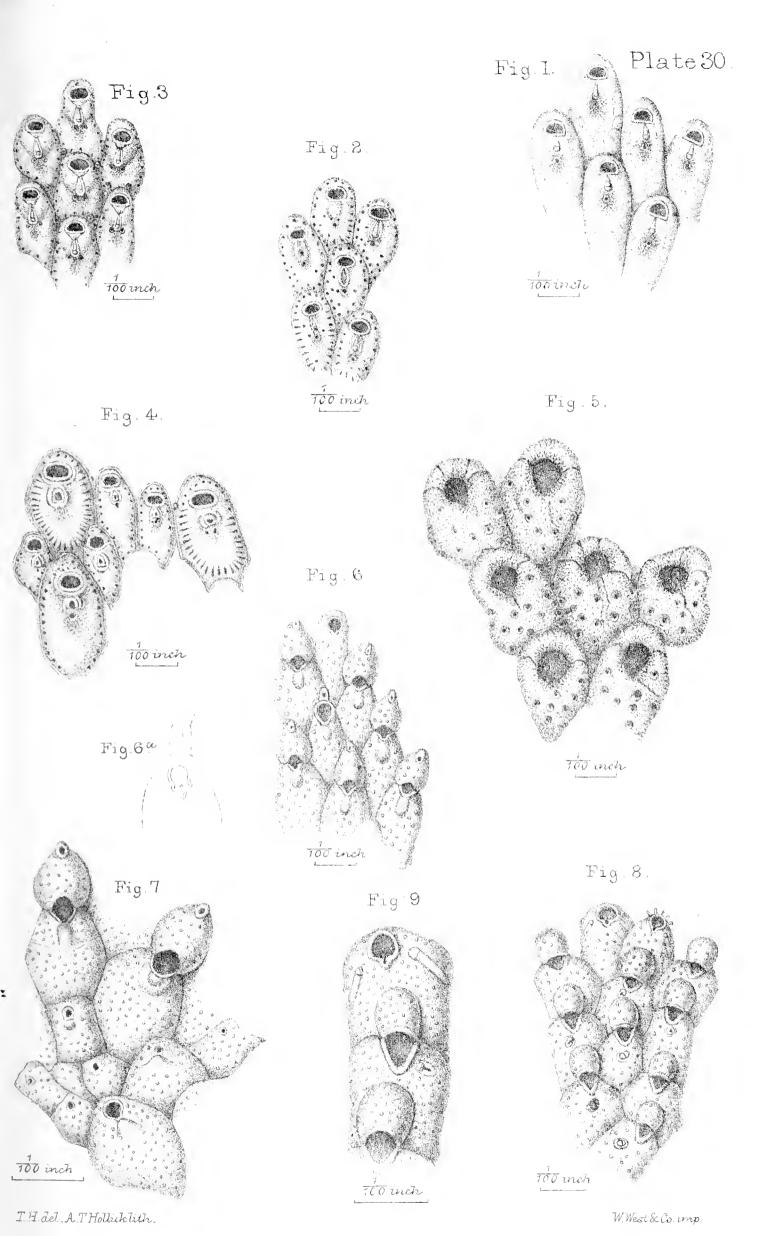
Ti West & Comp



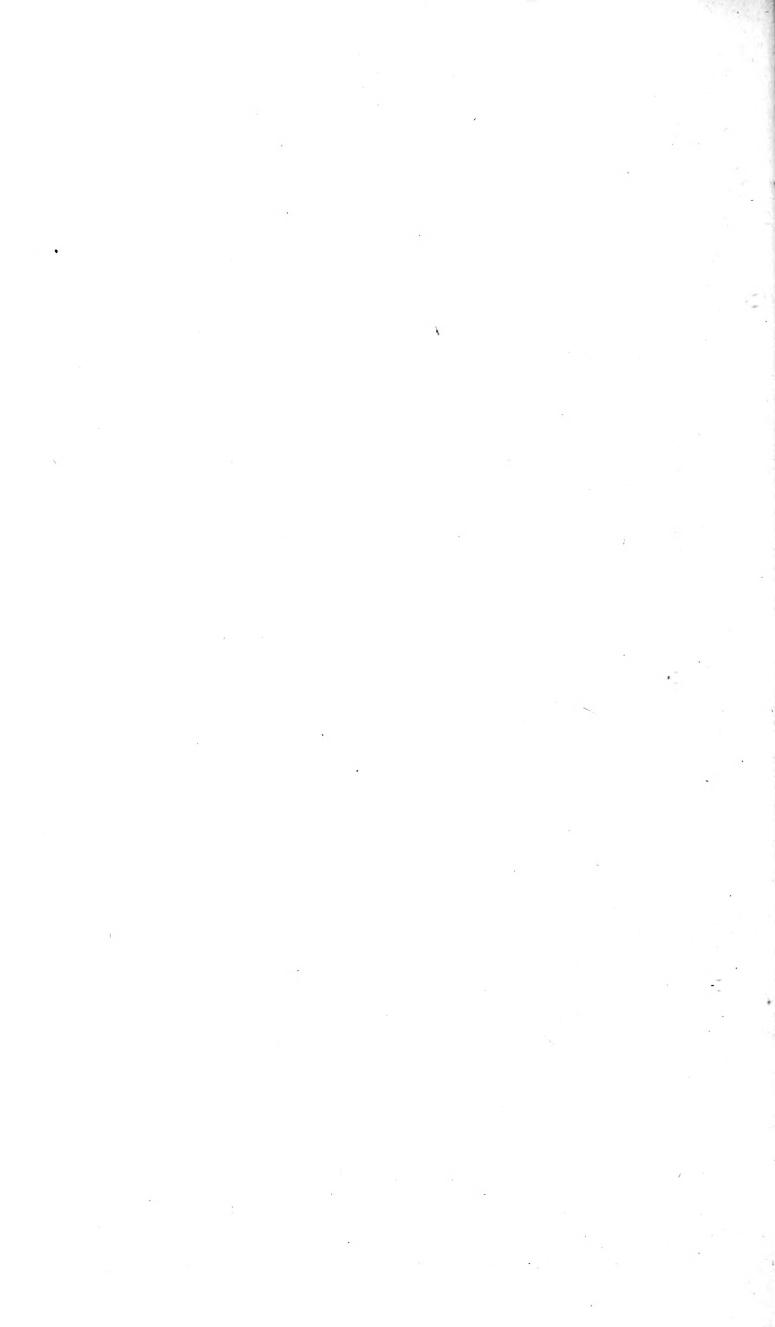


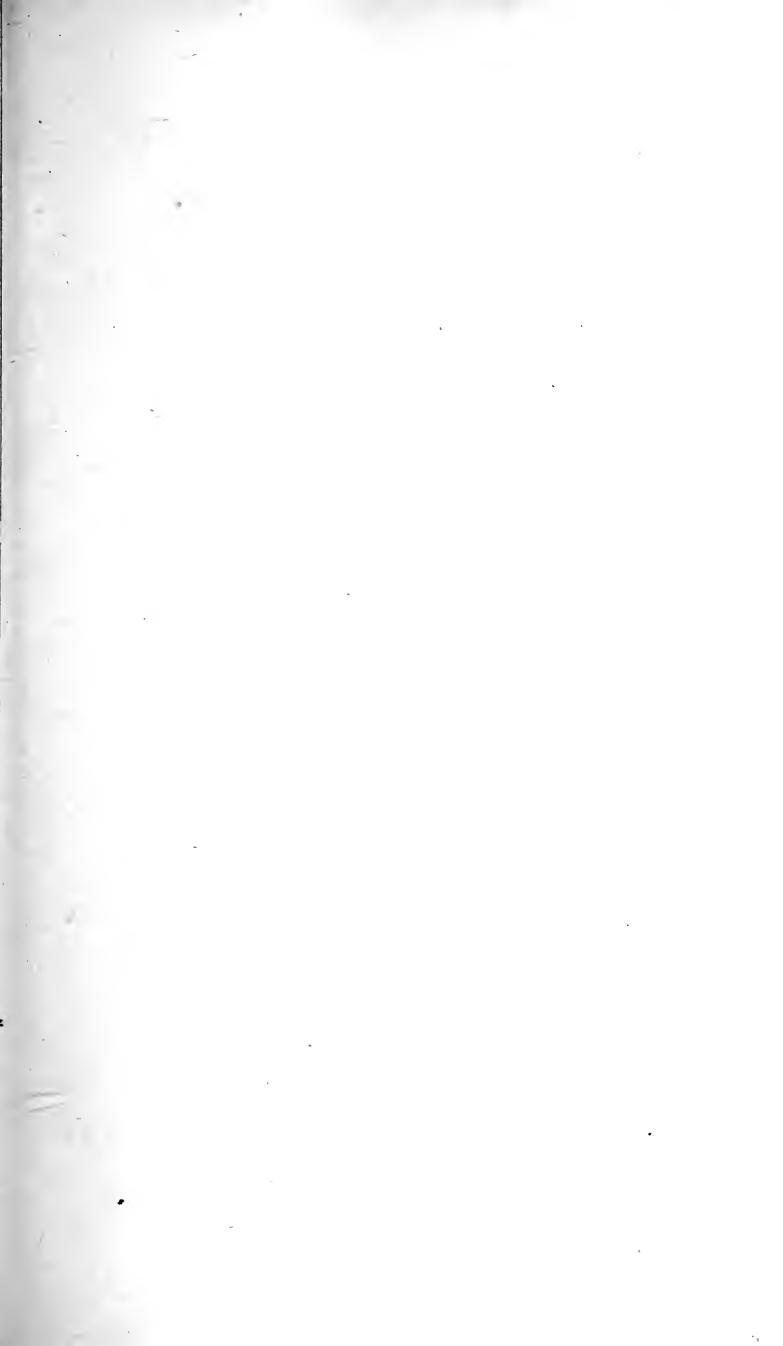
## PLATE XXX.

FIG.	
1, 2.	Microporella violacea, p. 216.
3.	, var. a.
4.	——————————————————————————————————————
5.	Schizoporella cruenta, p. 270.
6.	Schizoporella venusta, p. 276.
6 a.	, showing the form of the orifice and the avicularian area.
7.	——————————————————————————————————————
8, 9.	Schizoporella discoidea, p. 265.



London: John Van Voorst, MDCCCLXXIX.





## PLATE XXXI.

1. Diporula verrucosa, p. 220.

2. ———, nat. size.

3. Lepralia foliacea, p. 300; crustaceous state\*.

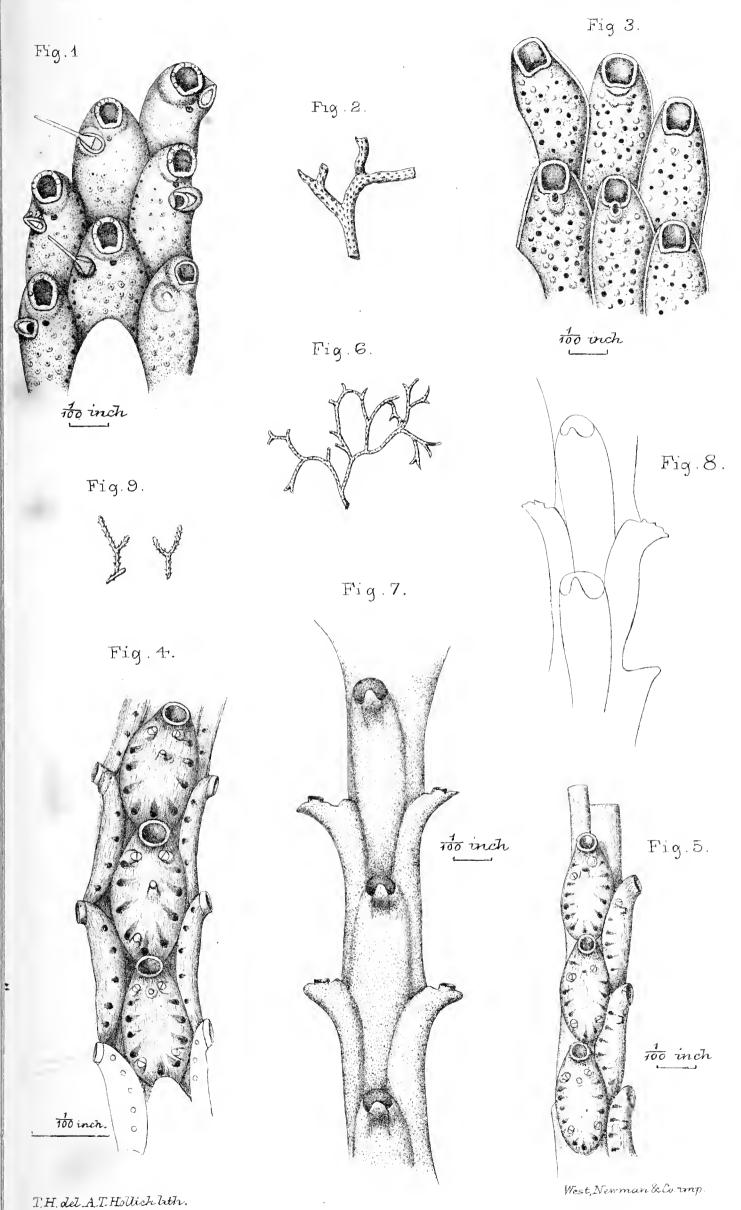
4, 5. Porina borealis, p. 229.

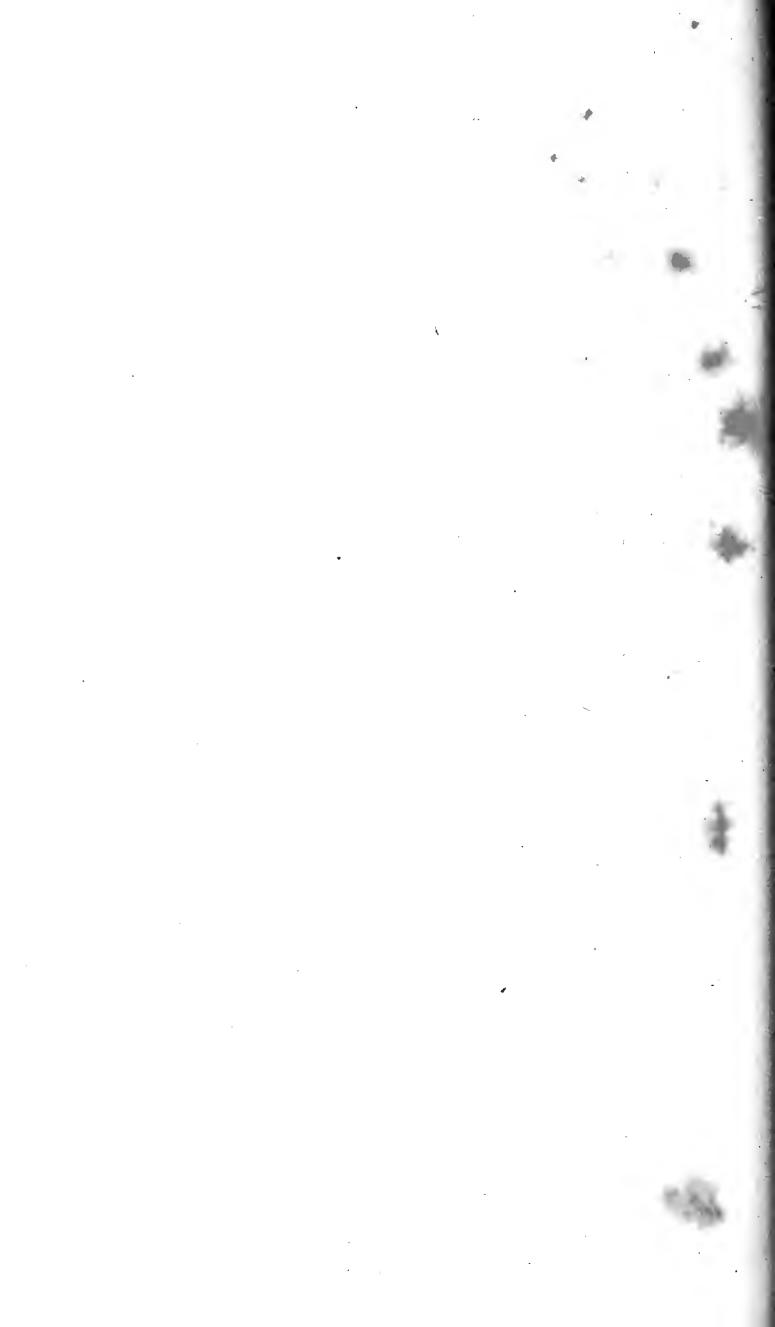
6. ———, nat. size.

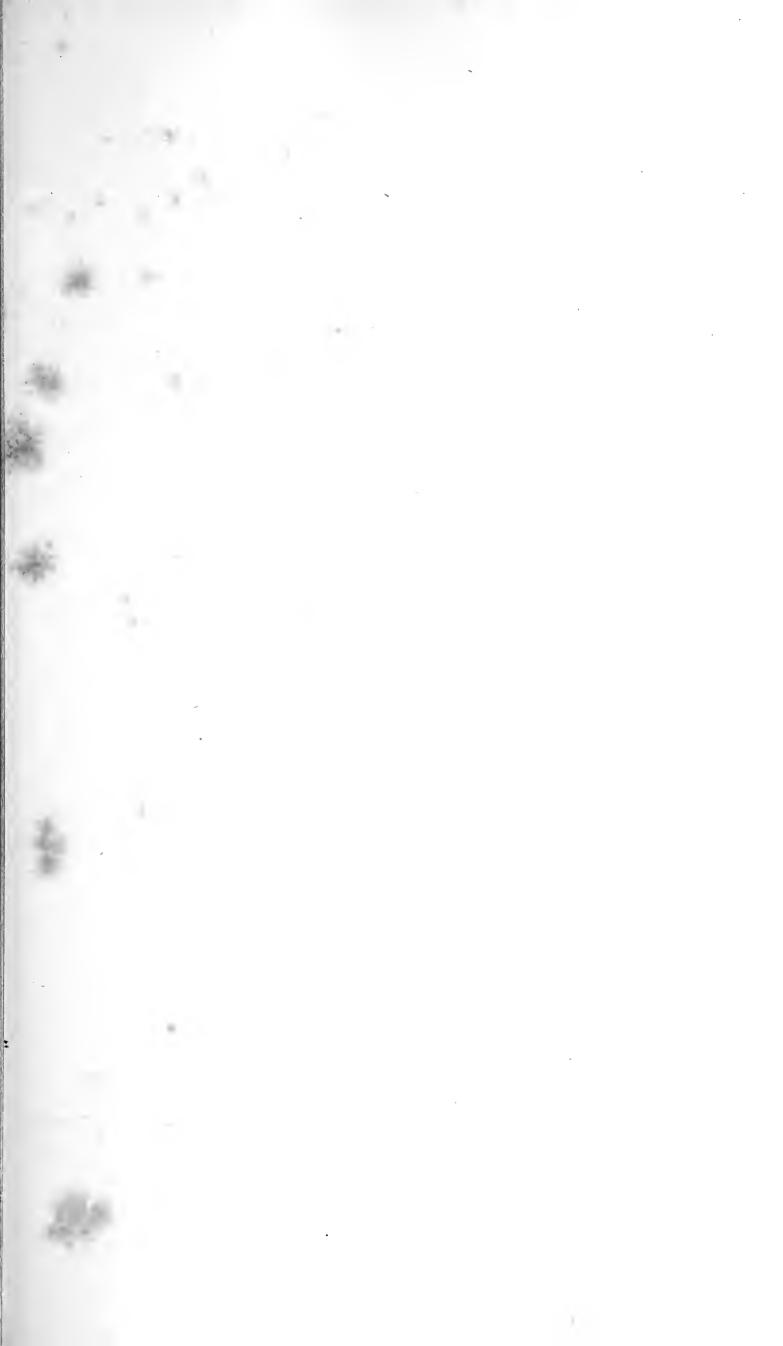
7, 8. Palmicellaria elegans, p. 378.

9. ———, nat. size.

<sup>\*</sup> There is no reference to this figure in the text.

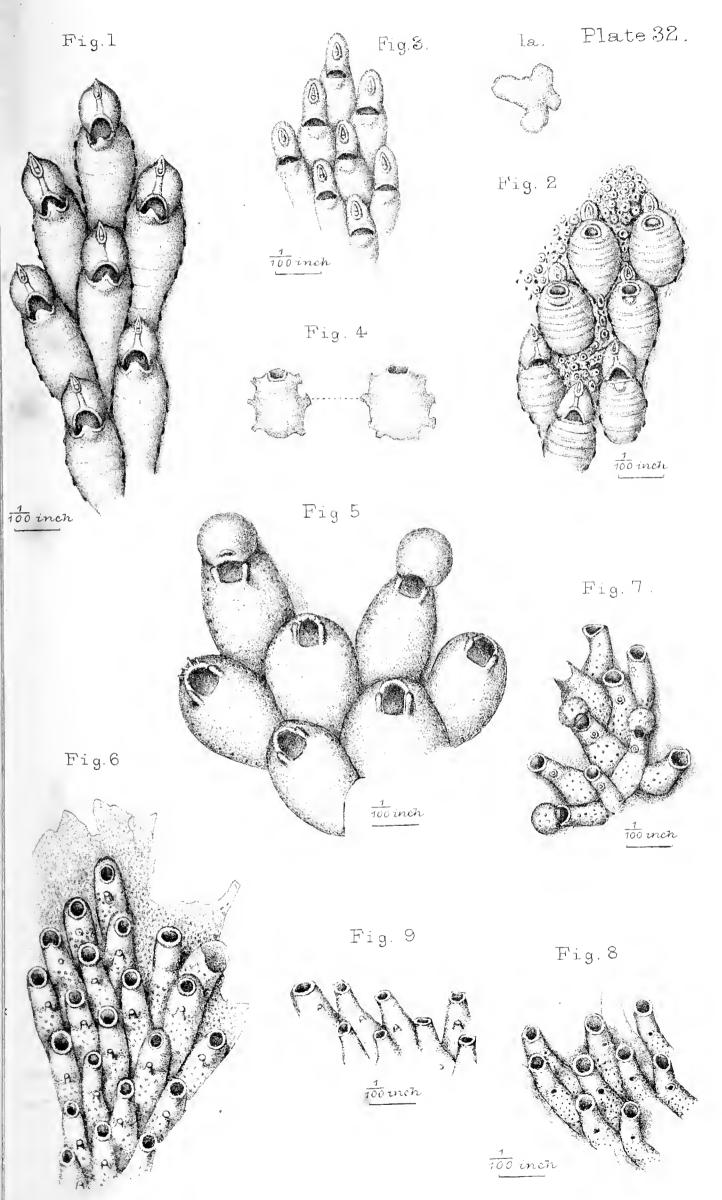






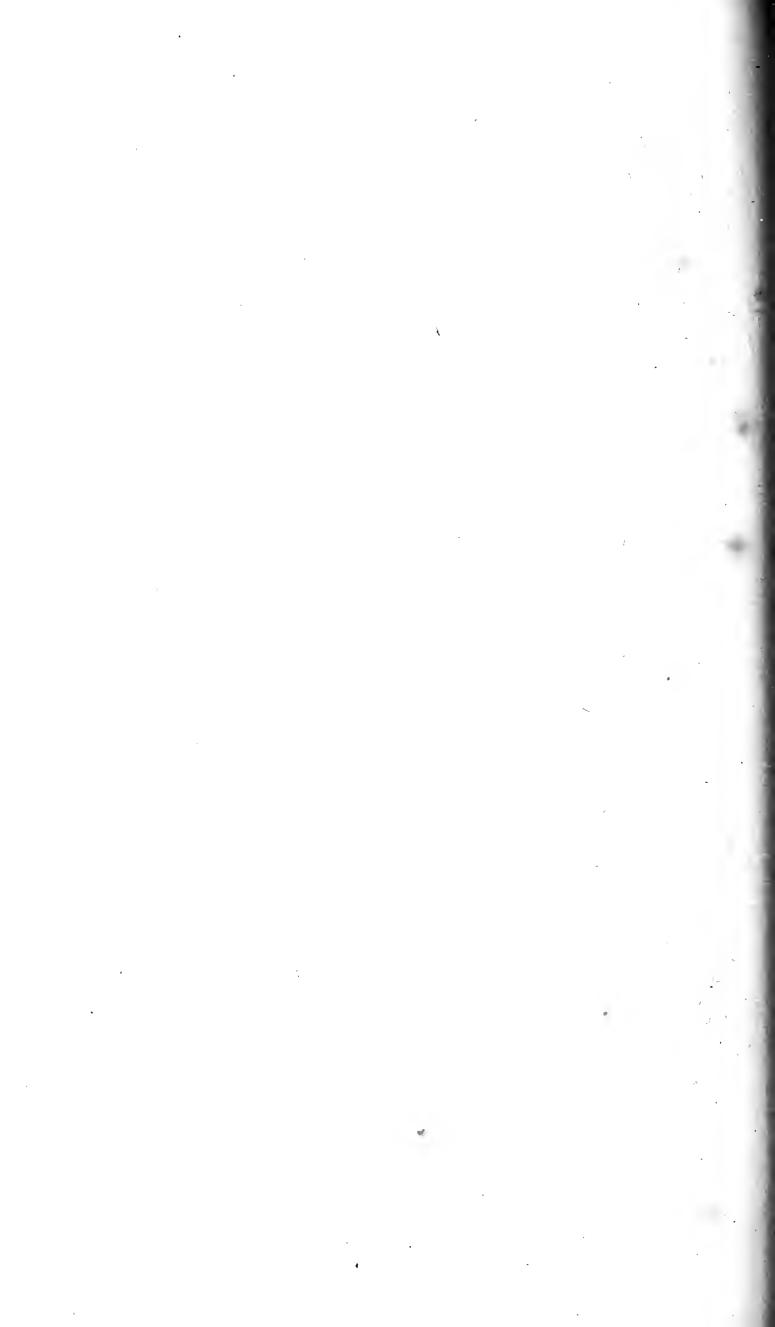
## PLATE XXXII.

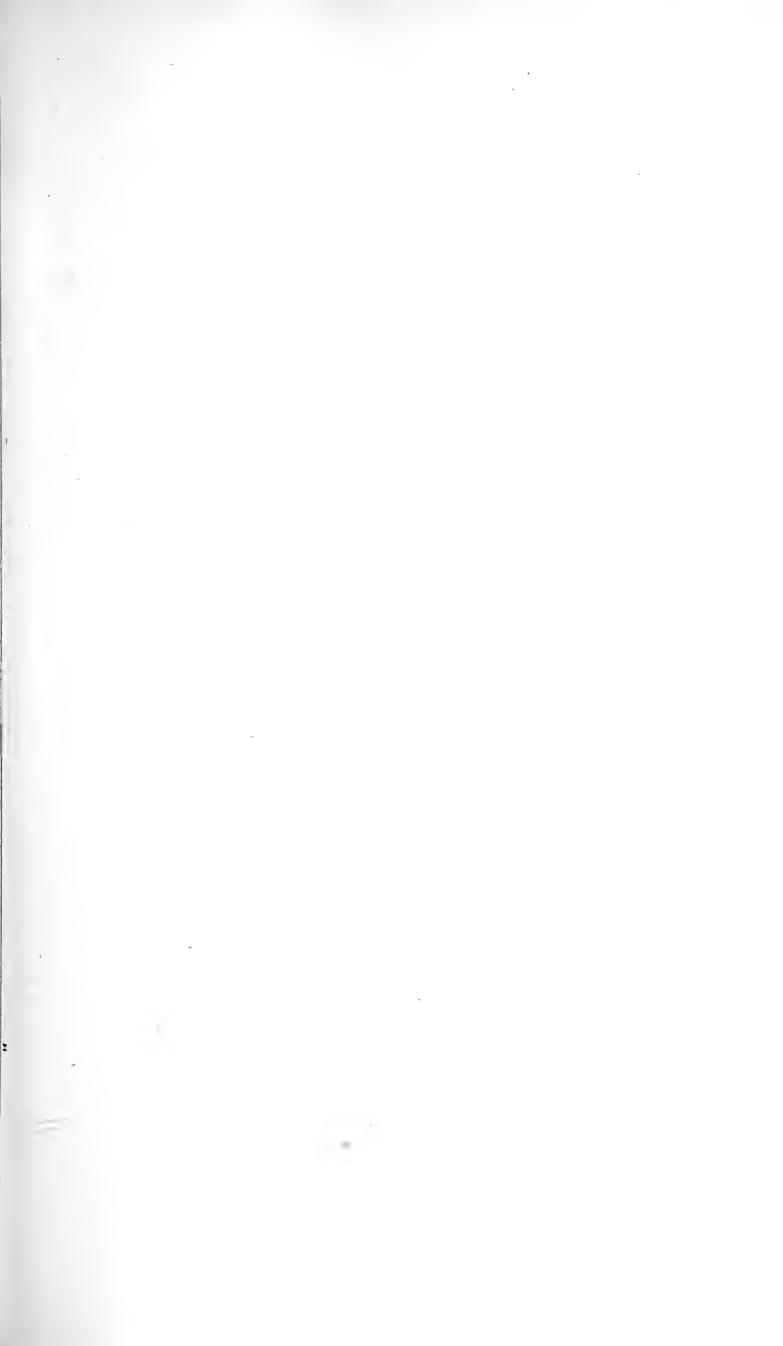
1-3. Chorizopora Brongniartii, p. 224.
1 a. ————, a colony, nat. size.
4. ————, detached zoœcia, showing the tubular connexions round the edge.
5. Lepralia polita, p. 315.
6-9. Porina tubulosa, p. 230.



W. West & Co. inp

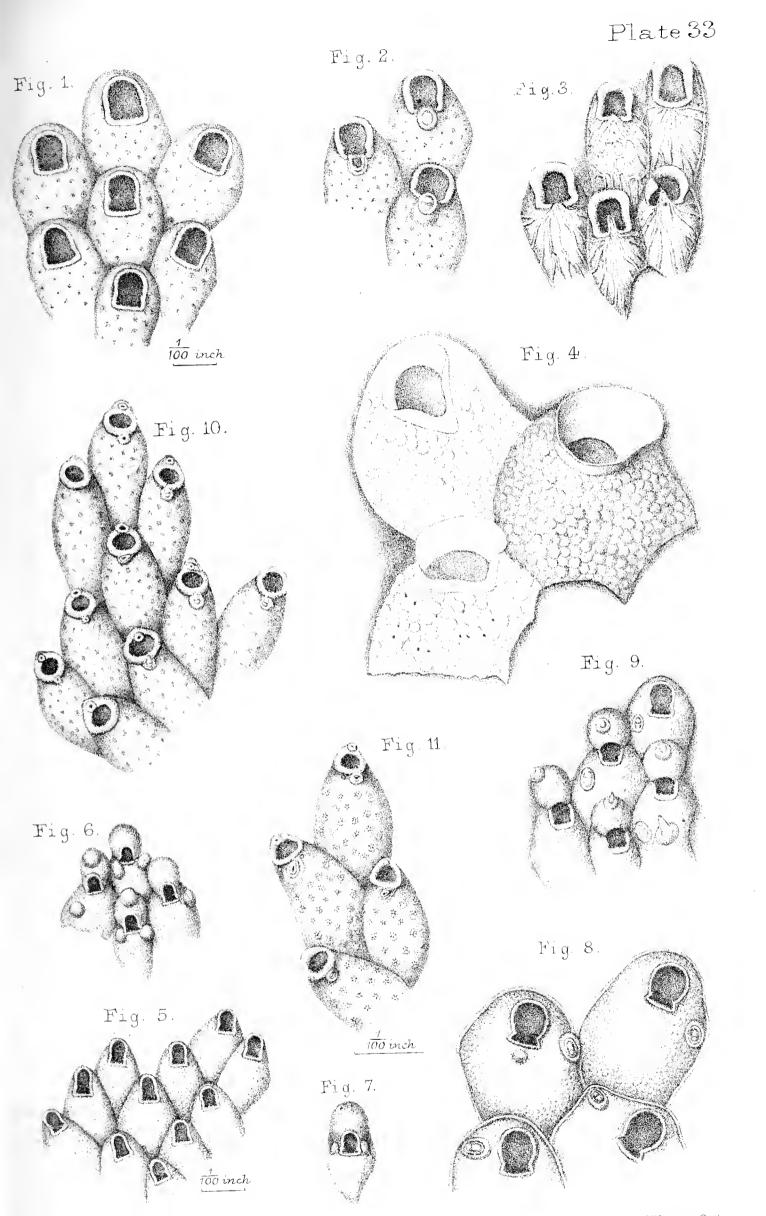
TH act ATHolack lith.





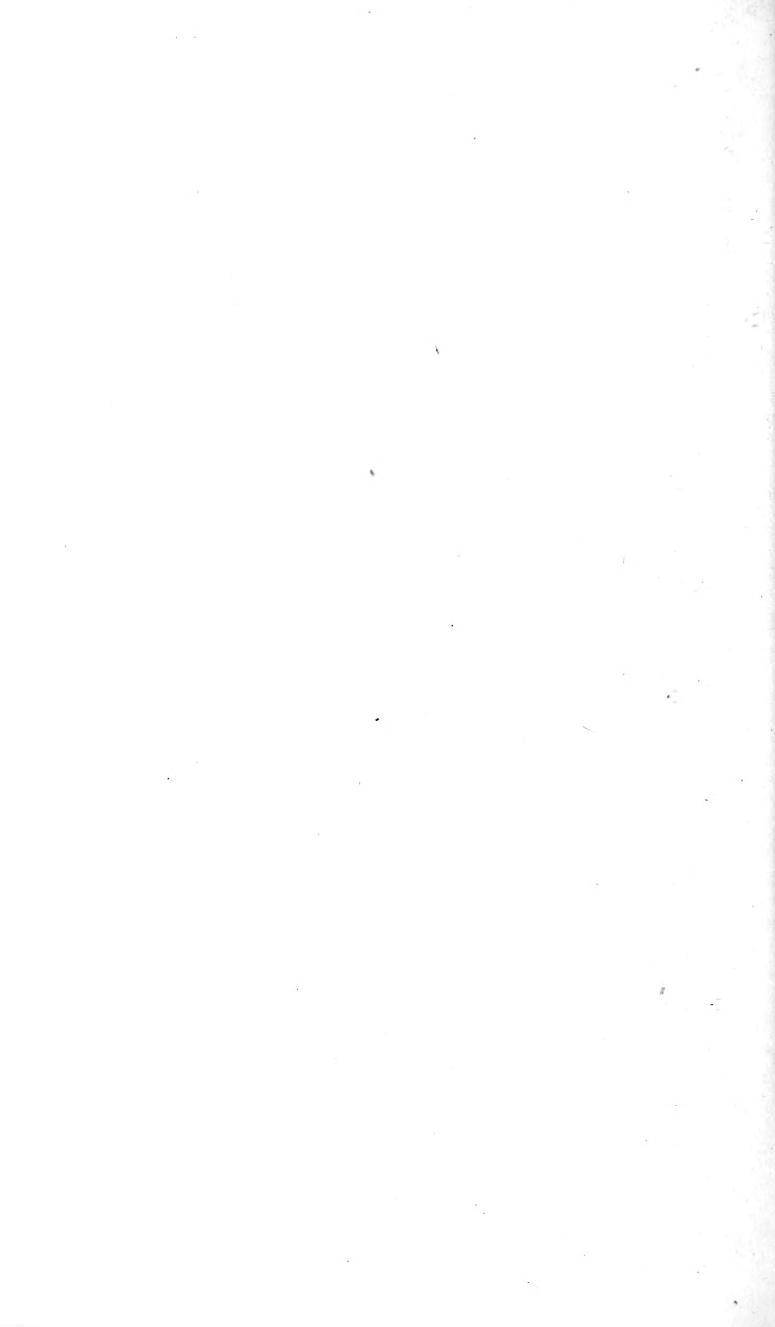
#### PLATE XXXIII.

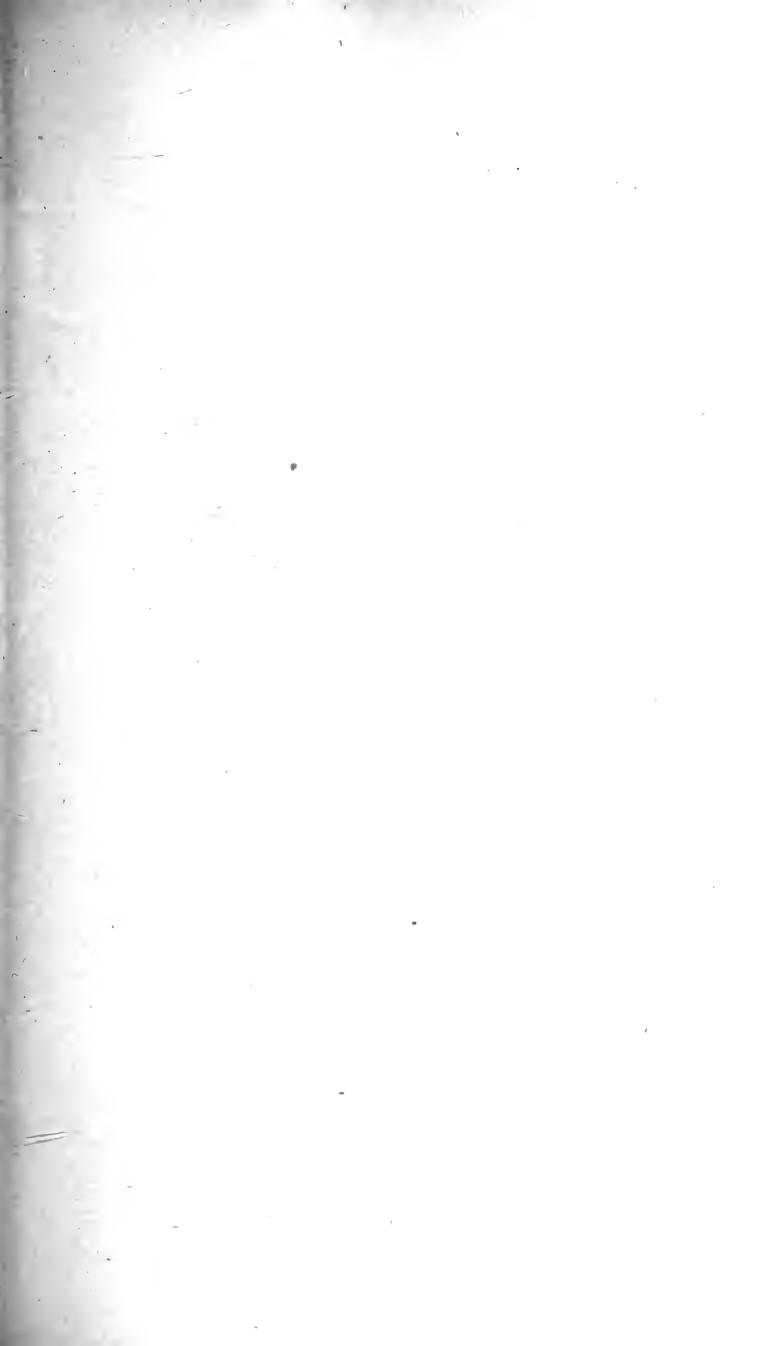
Lepralia Pallasiana, p. 297. See Plate XXIV. fig. 4.
 ————, variety.
 Lepralia canthariformis, p. 299. After Busk.
 6. Lepralia adpressa, p. 307.
 ————, oœcium.
 9. Lepralia hippopus, p. 309.
 Anarthropora monodon, p. 233.
 ————, showing the stellate character of the pores.



T.H. del. A.T. Hollick lith.

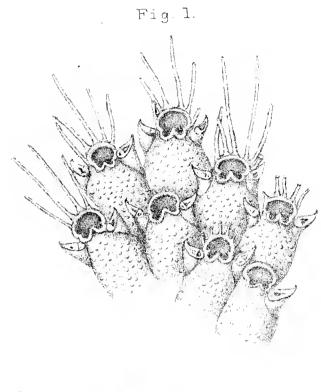
W.West & Co imp.

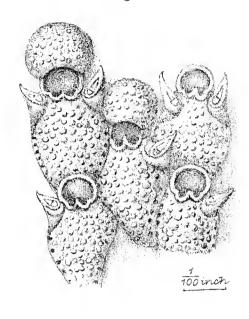


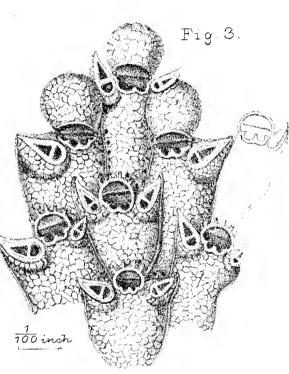


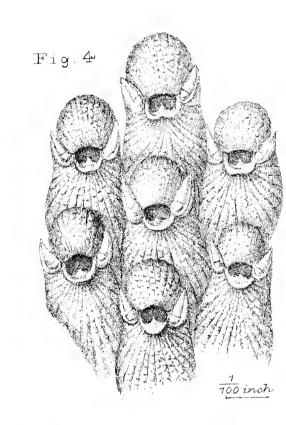
## PLATE XXXIV.

Fig. 2.











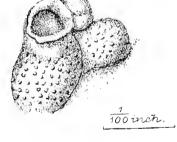
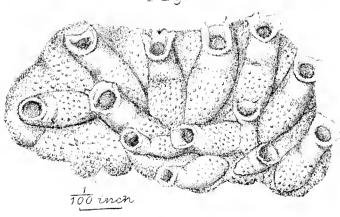


Fig. 8



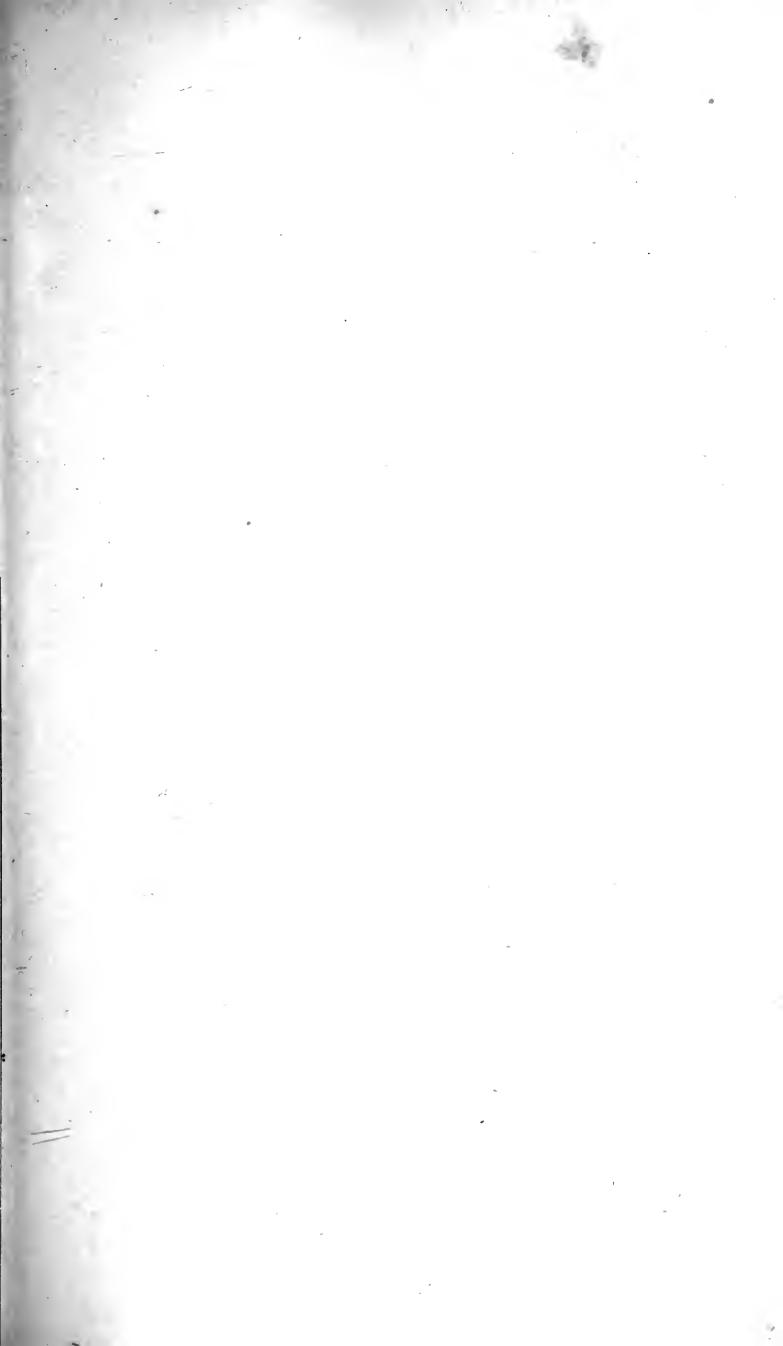
Fig. 7.



T.H. del. A.T. Hollick lith.

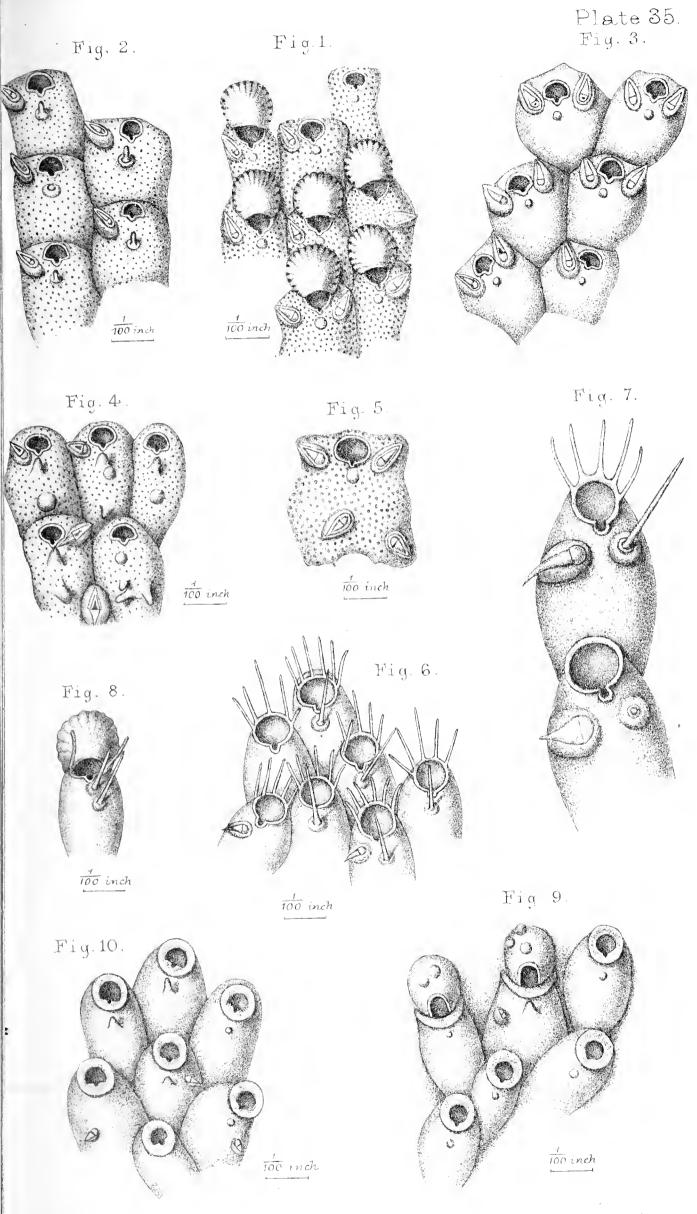
W. West & Co. ump.





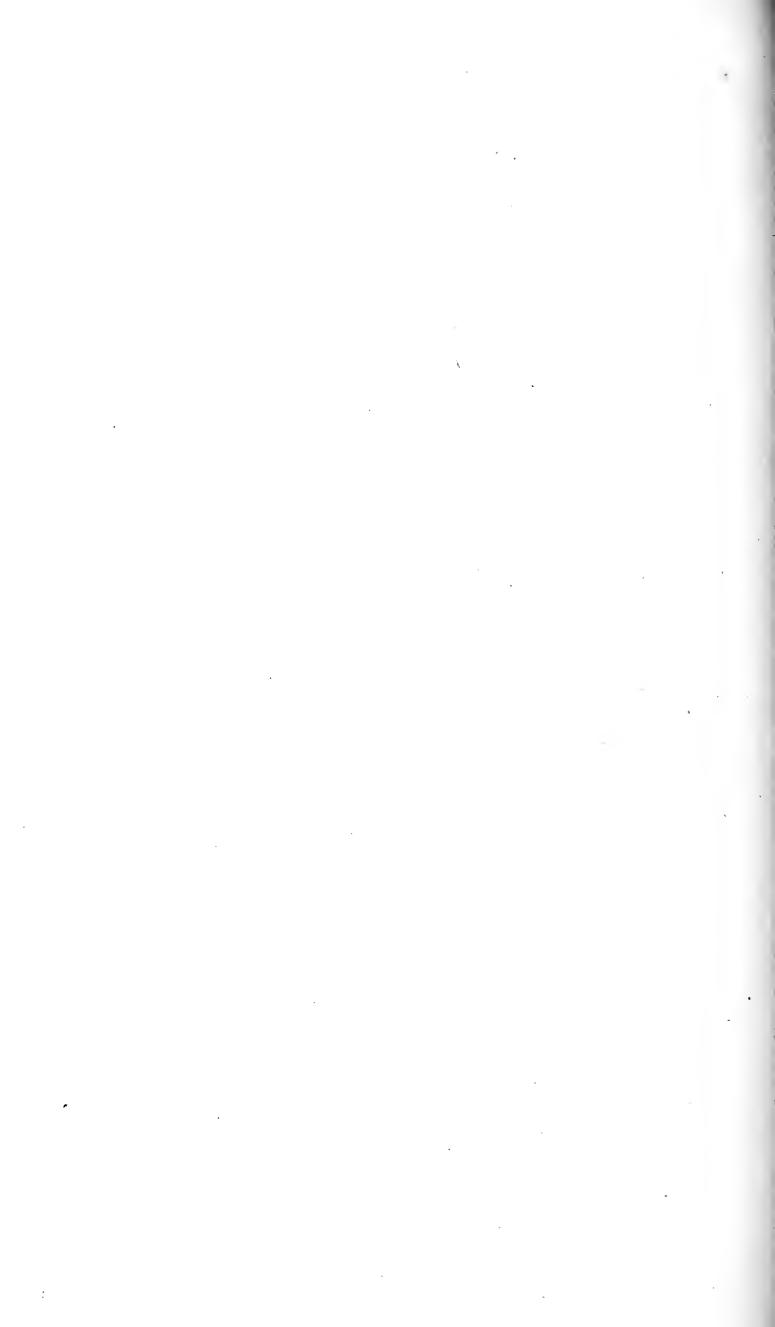
### PLATE XXXV.

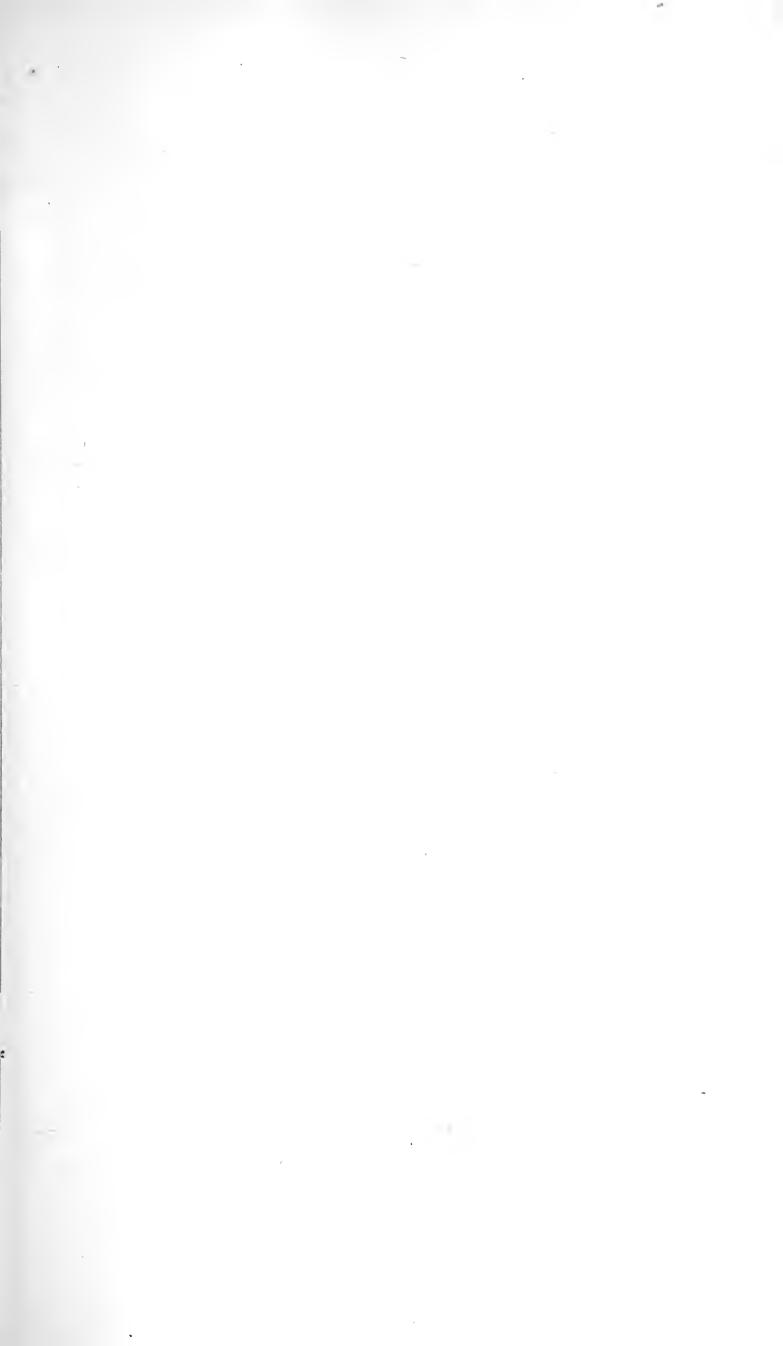
FIG.	
1.	Schizoporella unicornis, p. 328; with occia.
2.	————, with a single avicularium.
3.	, var. Ansata.
4.	, var. with umbonate processes.
5.	, a single zoœcium, with two lateral avicularia and two below.
6.	Schizoporella spinifera, p. 241.
7.	, two zoœcia, more highly magnified.
8.	————, zoœcium with ovicell.
9.	Schizoporella simplex, p. 246; a colony with occia.
10	



T.H del. A T Hollick lith

W. West & Co imp

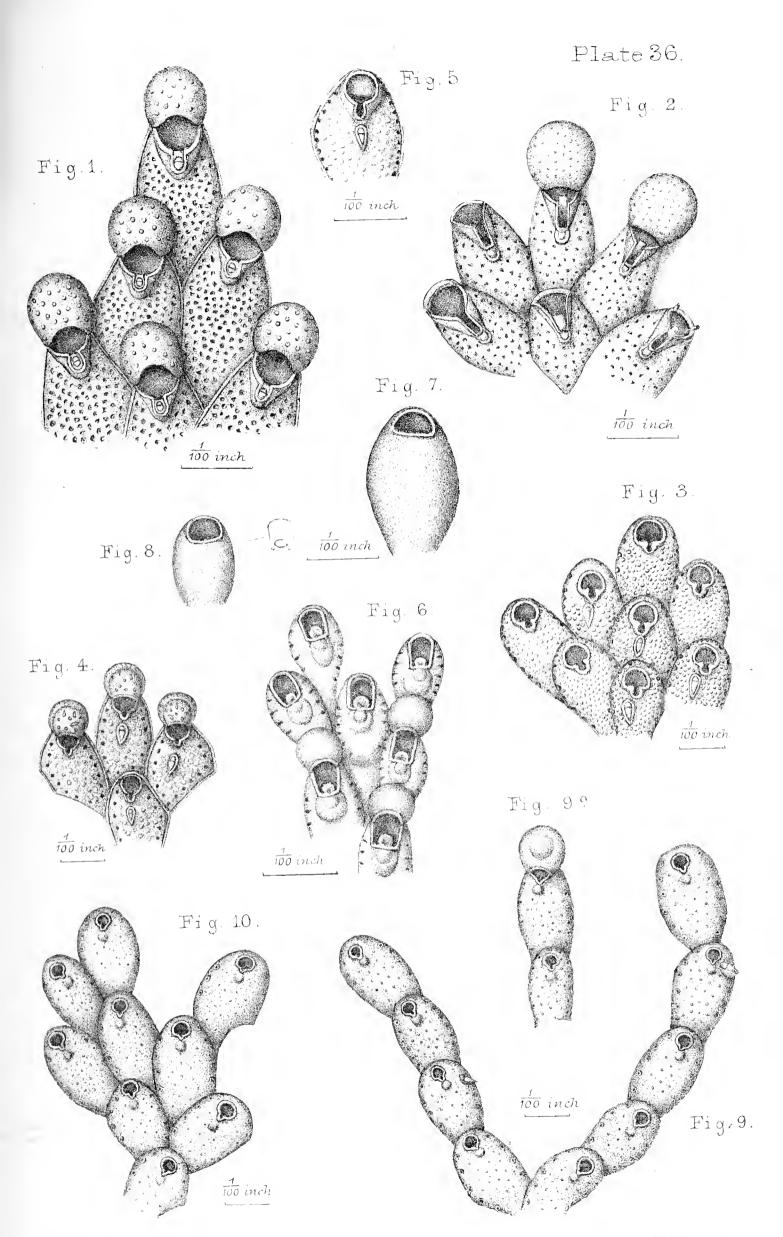




#### PLATE XXXVI.

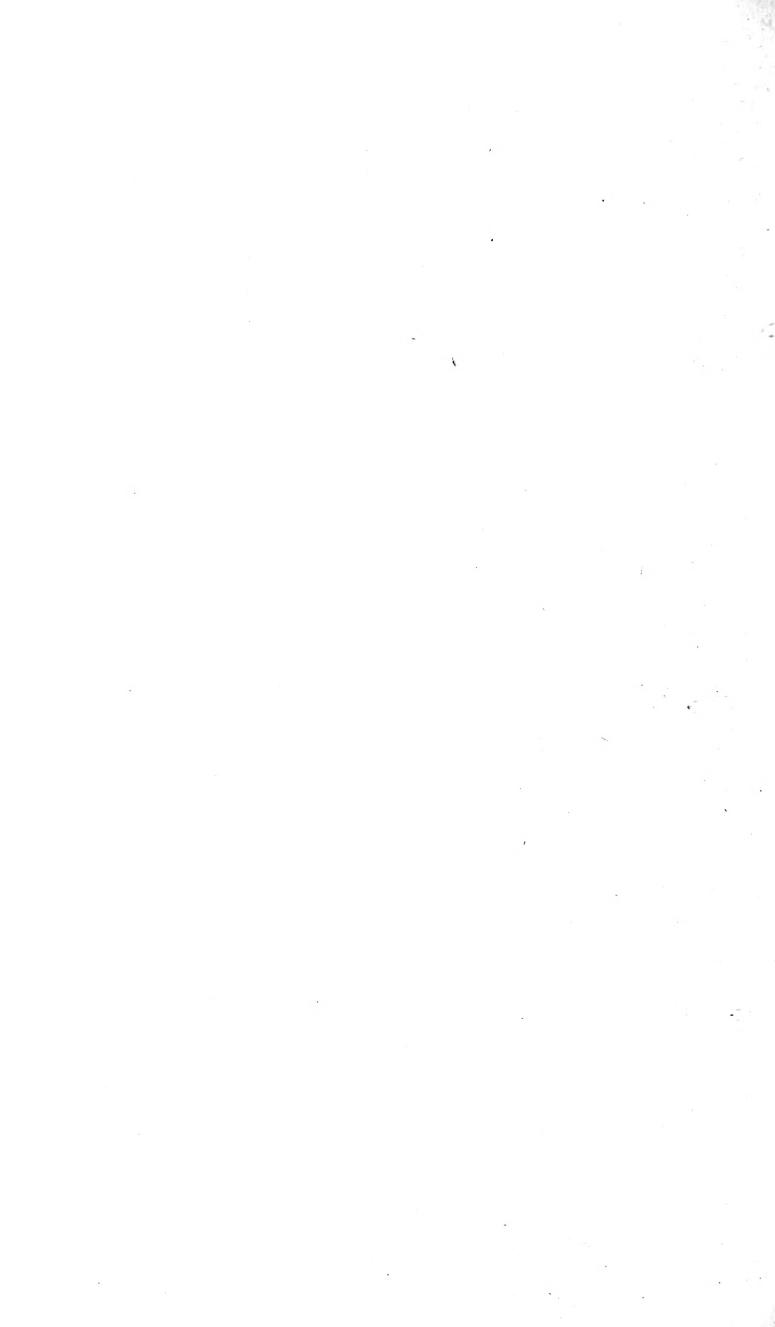
FIG.

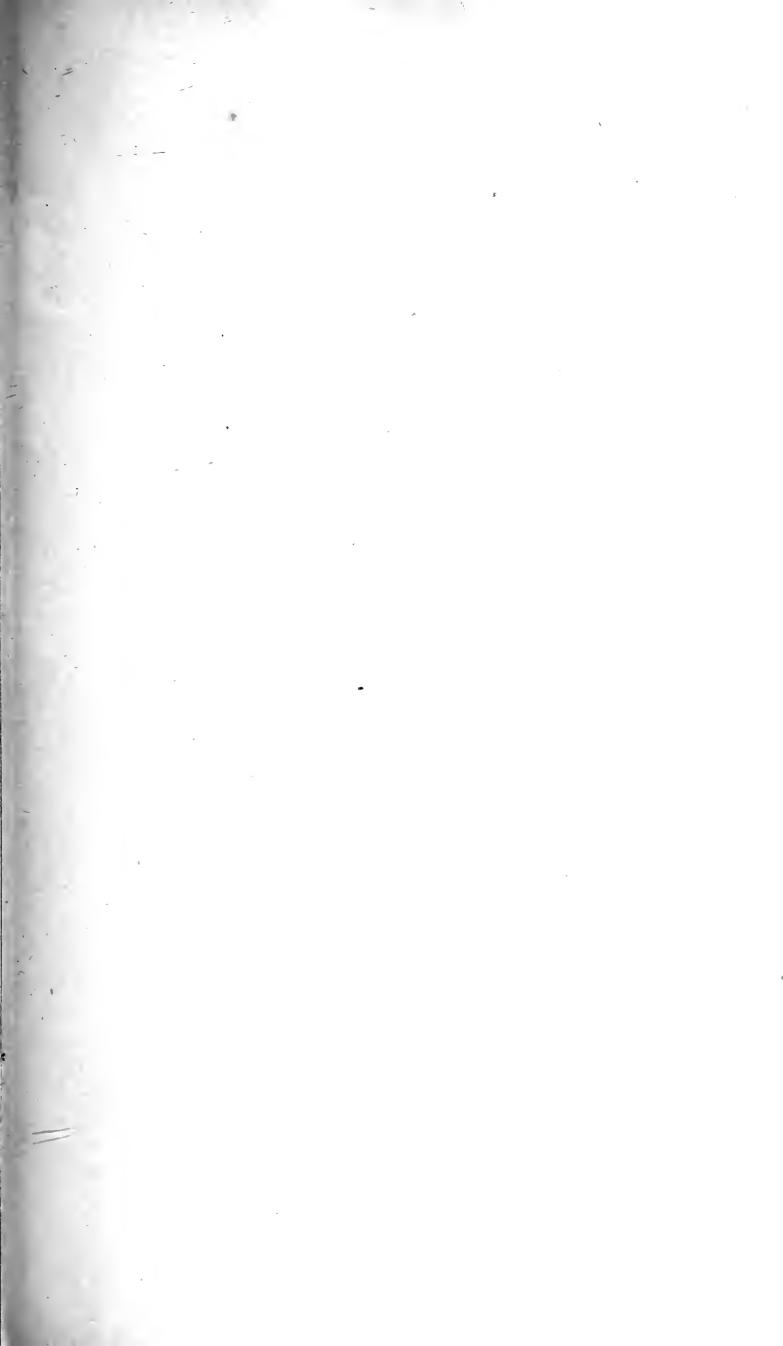
- 1. Smittia Landsborovii, p. 341; var. (porifera).
- 2. ——, var. (crystallina).
- 3-5. Ѕміттіа макмокеа, р. 350.
  - 6. Porella minuta, p. 326; littoral form.
  - 7. Young cell of Porella concinna, showing the primary orifice.
  - 8. Young cell of Porella minuta, with outline of the adult orifice.
- 9, 10. Schizoporella Alderi, p. 243.



TE ael.A.T.Hollion lun

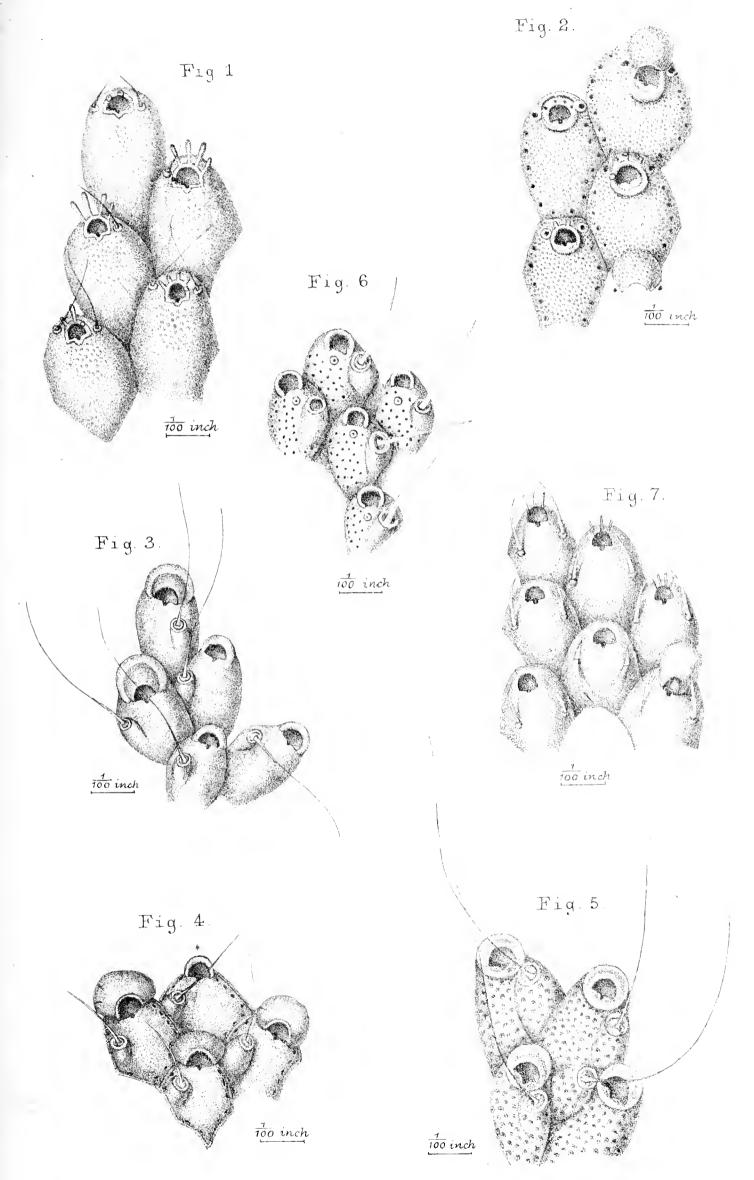
W. West & Coimp



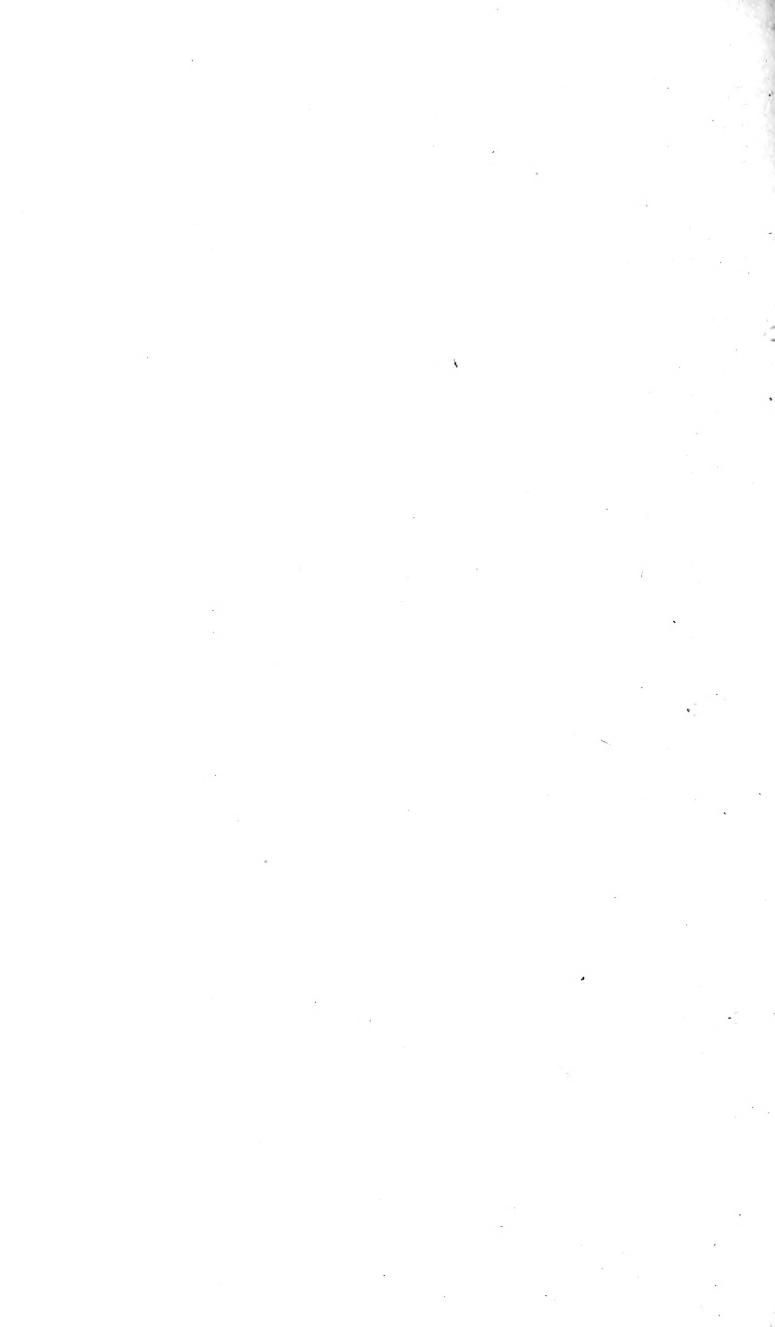


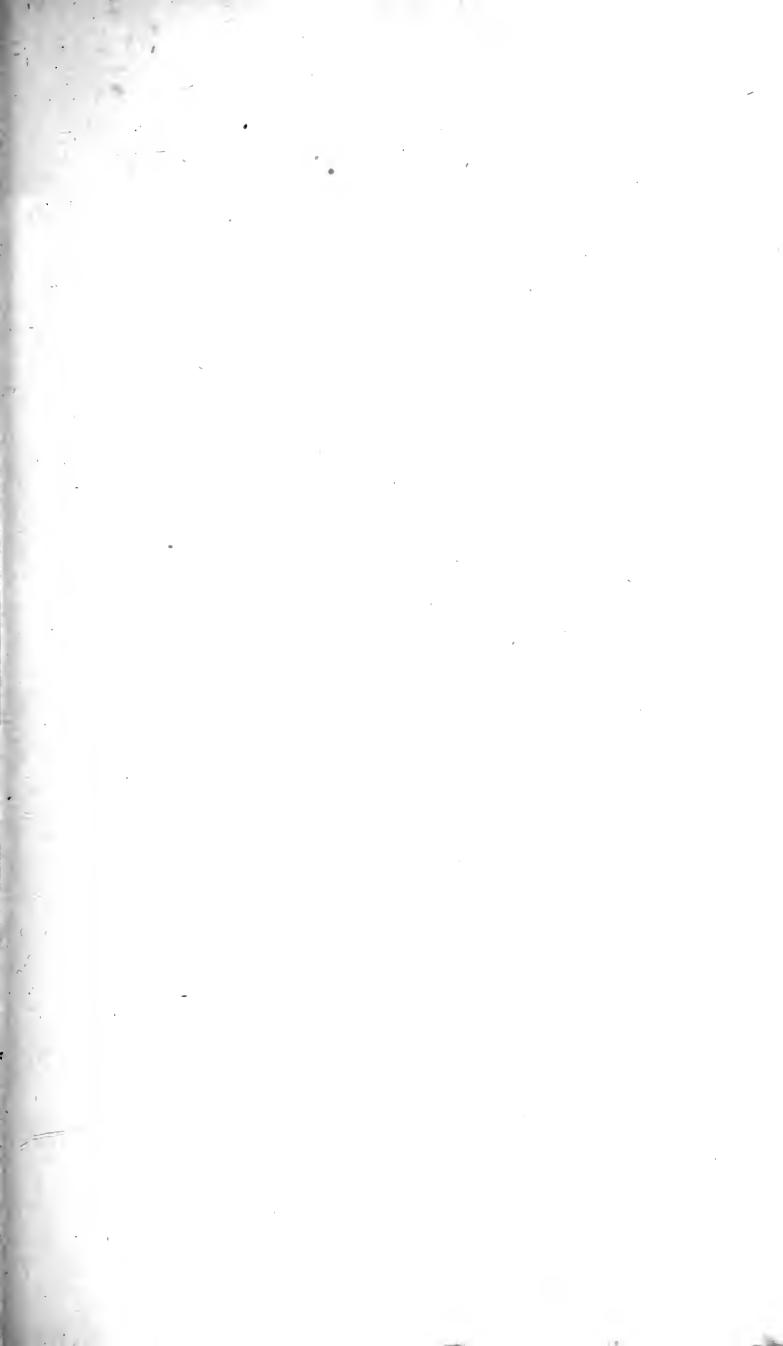
#### PLATE XXXVII.

FIG	
1.	Mastigophora Dutertrei, p. 279.
2.	·
3.	Mastigophora Hyndmanni, p. 281.
4.	————, with occia and punctured margin.
5.	, var. with punctured surface and very long vibracula.
6.	, var. Ensiformis.
7.	Schizoporella vulgaris, p. 244. See Plate XV. figs. 5, 6.



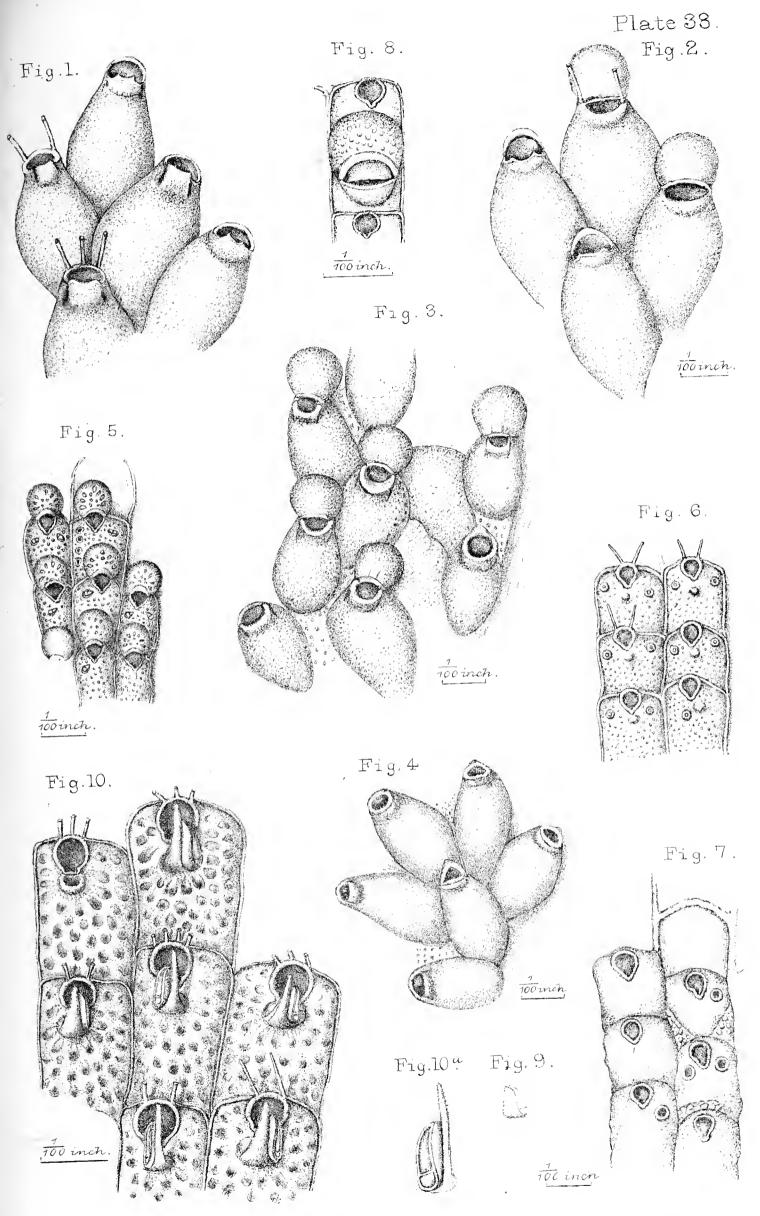
T.H. del A.T. Hollick lith





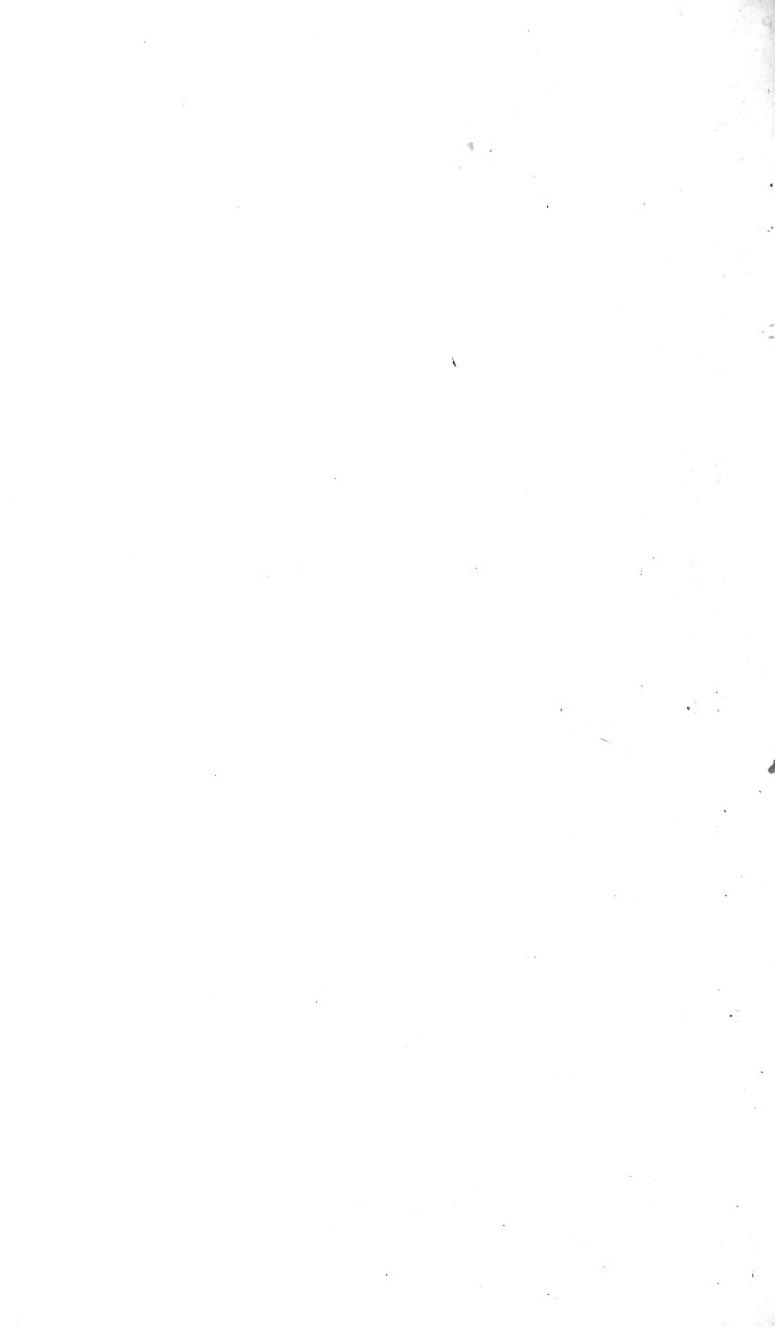
# PLATE XXXVIII.

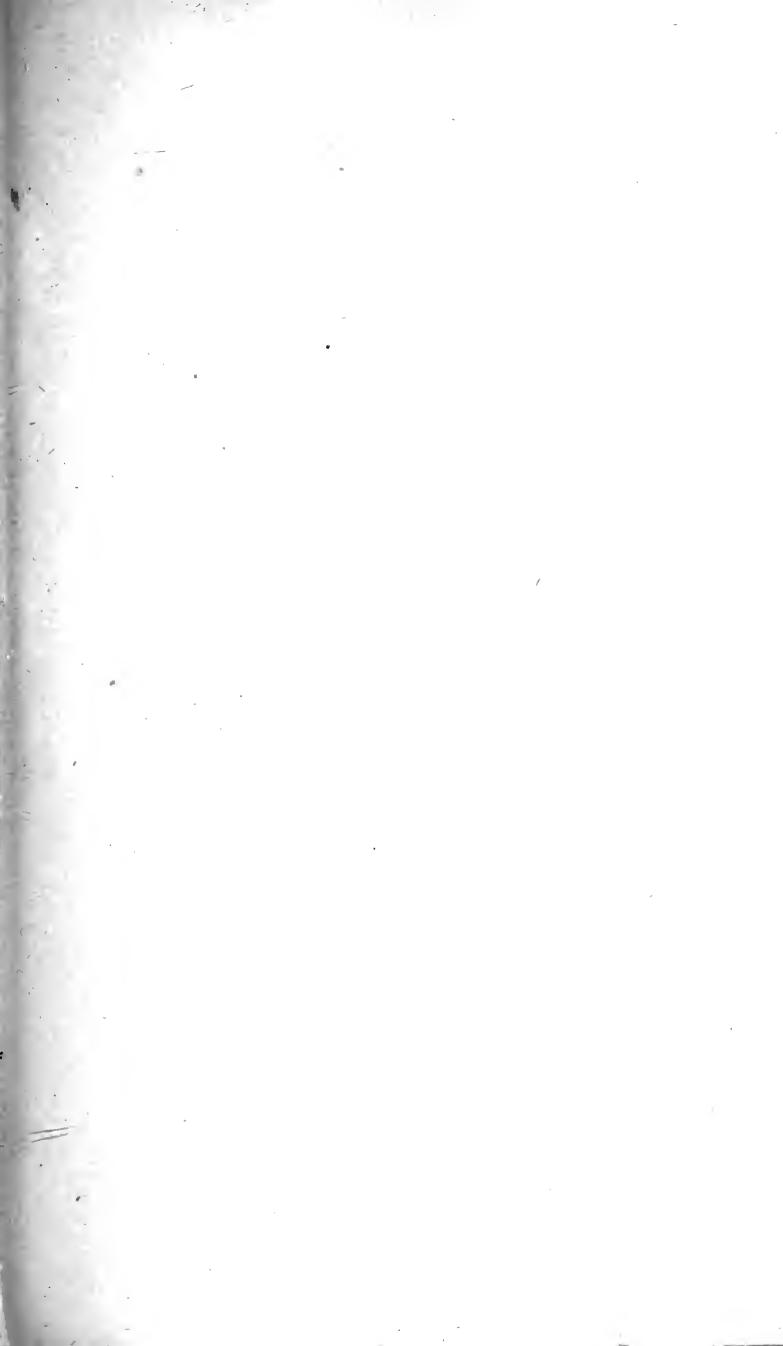
FIG.	
1.	Mucronella abyssicola, p. 369.
2.	————, with oœcia.
3.	Mucronella microstoma, p. 370.
4.	<del></del> .
5.	Schizoporella linearis, p. 247; with occia. See Plate XXIV. fig. 1.
6.	<del></del> .
7.	——, old state.
8.	————, single zoœcium, with a rudimentary ovi- celligerous cell on the front wall.
9.	——, avicularium.
10.	Schizoporella linearis, var. hastata.
10a	. ———, —— mucro and avicularium.



T.H del. A.T Hollich lith

W. West & Co. imp.

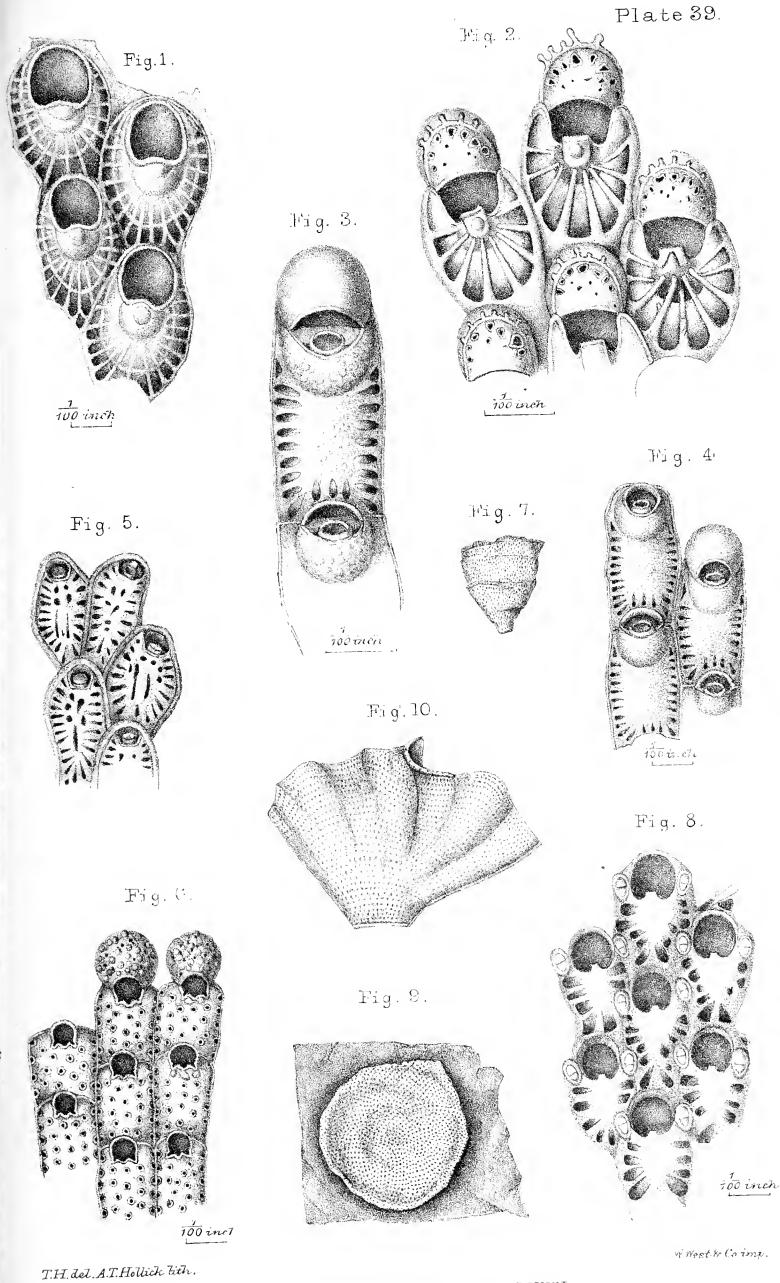




#### PLATE XXXIX.

HG.	
1.	Umbonula* verrucosa, p. 317; littoral form.
2.	———, with oœcia, from deeper water.
3.	Porella struma, p. 329.
4.	· · · · · · · · · · · · · · · · · · ·
5.	——————————————————————————————————————
6.	Schizoporella sanguinea, p. 252.
7.	————, erect growth.
8.	Mucronella pavonella, p. 376.
9.	——, incrusting form.
10.	, erect foliaceous form.

<sup>\*</sup> The name stands as Umbonella in the text; but this form has already been employed as a generic term.



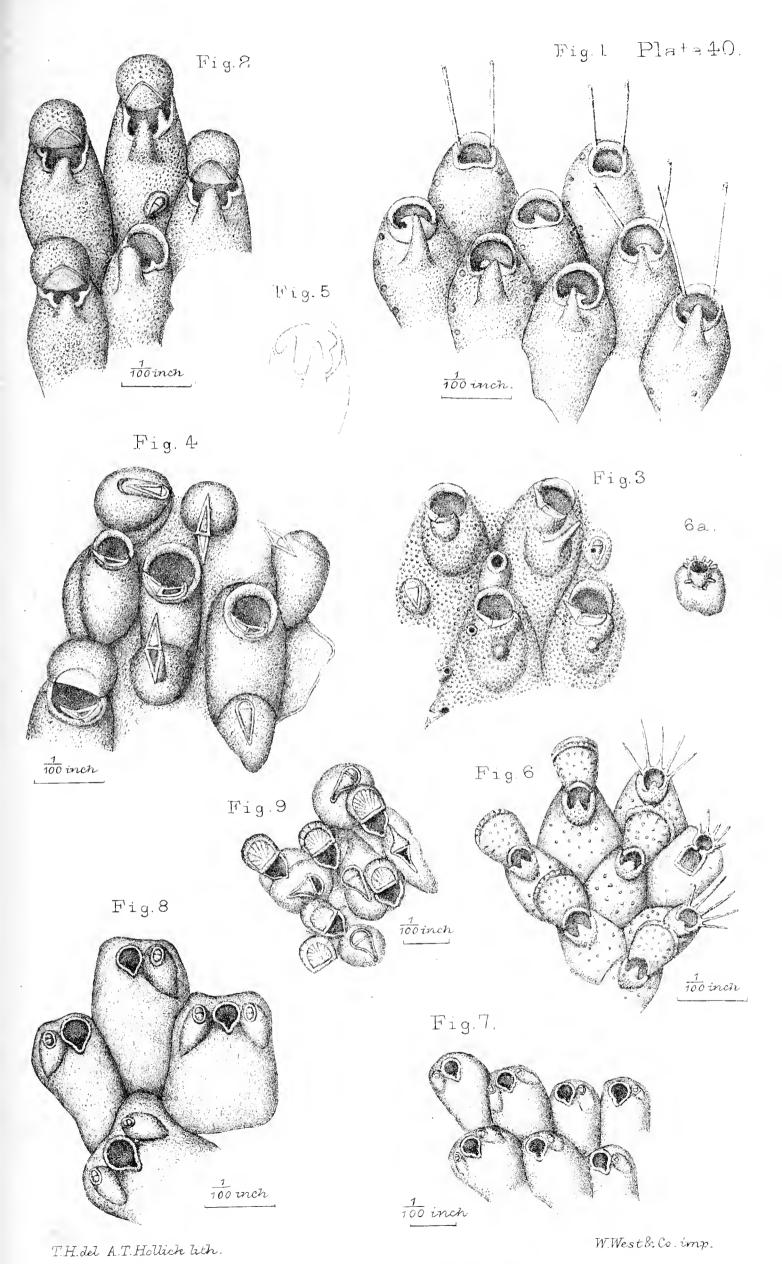
London: John Van Voorst, MDCCCLXXIX.





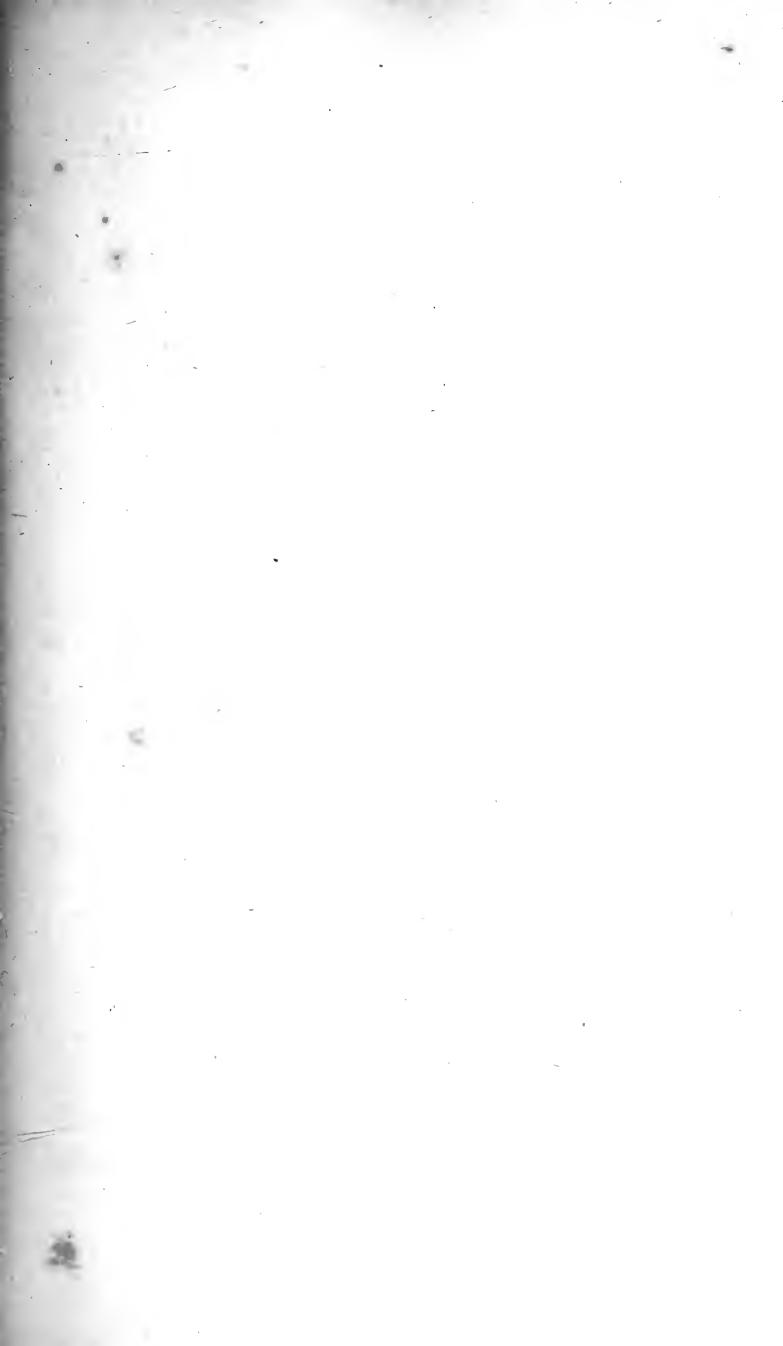
## PLATE XL.

FIG. 1.	Rhynchopora bispinosa, p. 385; showing marginal cells and the uncinate process.
2	·
3	———, with the oral avicularium.
4	———, with aviculiferous mamillæ.
5	——————————————————————————————————————
6. 3	Schizoporella cristata, p. 254.
6a.	, primary cell.
7. \$	Schizoporella biaperta, p. 255.
8	————, more highly magnified.
9	, showing occia and aviculiferous mamillæ.



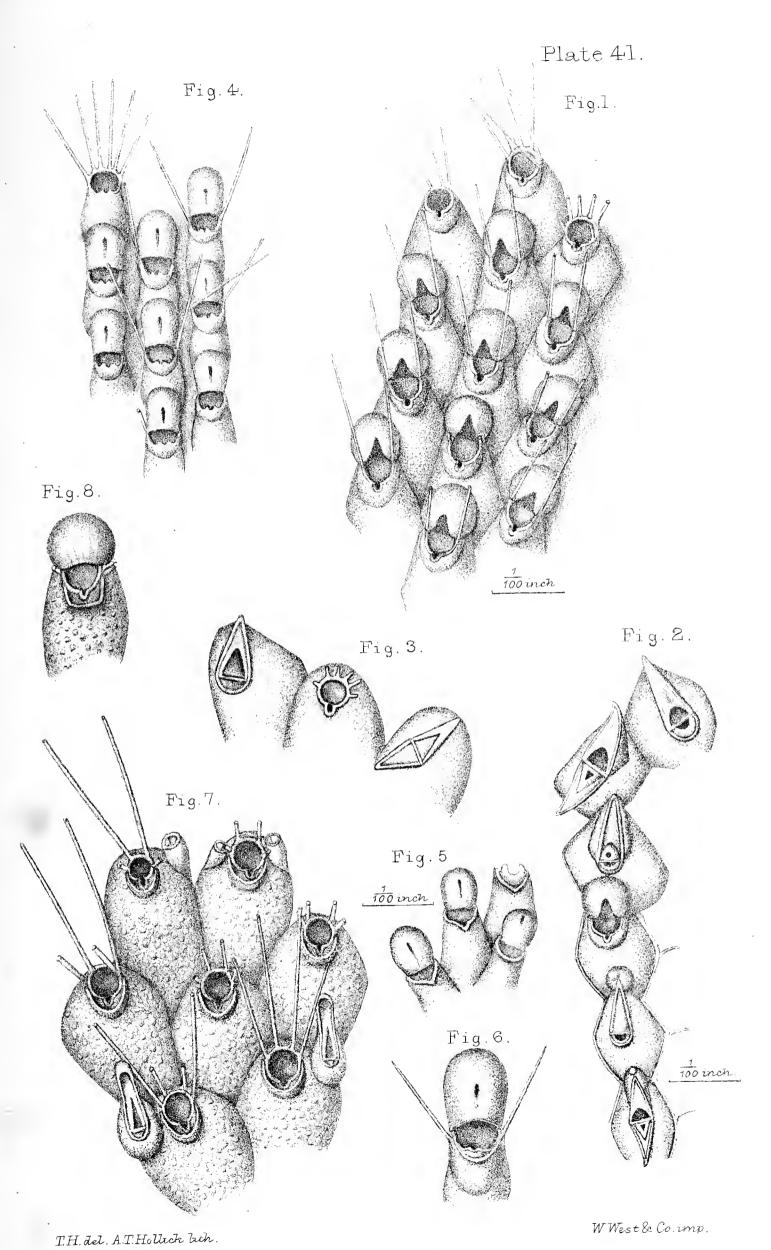
London: John Van Voorst, MDCCCLXXIX.

•							•
19			,				
	4						
•							
				-			
ω							
,							
						·	
	-						
	i						
	,						
÷							
	_						
•							
					,		
				•			
				•			
		,					
		•					
•			-				
100							
		• 00	•				



### PLATE XLI.

TG.	
1.	Schizotheca fissa, p. 284.
2.	——————————————————————————————————————
3.	————, marginal cell and avicularia.
4.	Schizotheca divisa, p. 285.
5.	———, with the peristome much elevated.
6.	——————————————————————————————————————
7.	Schizoporella armata, p. 258.
8.	, cell with occium.



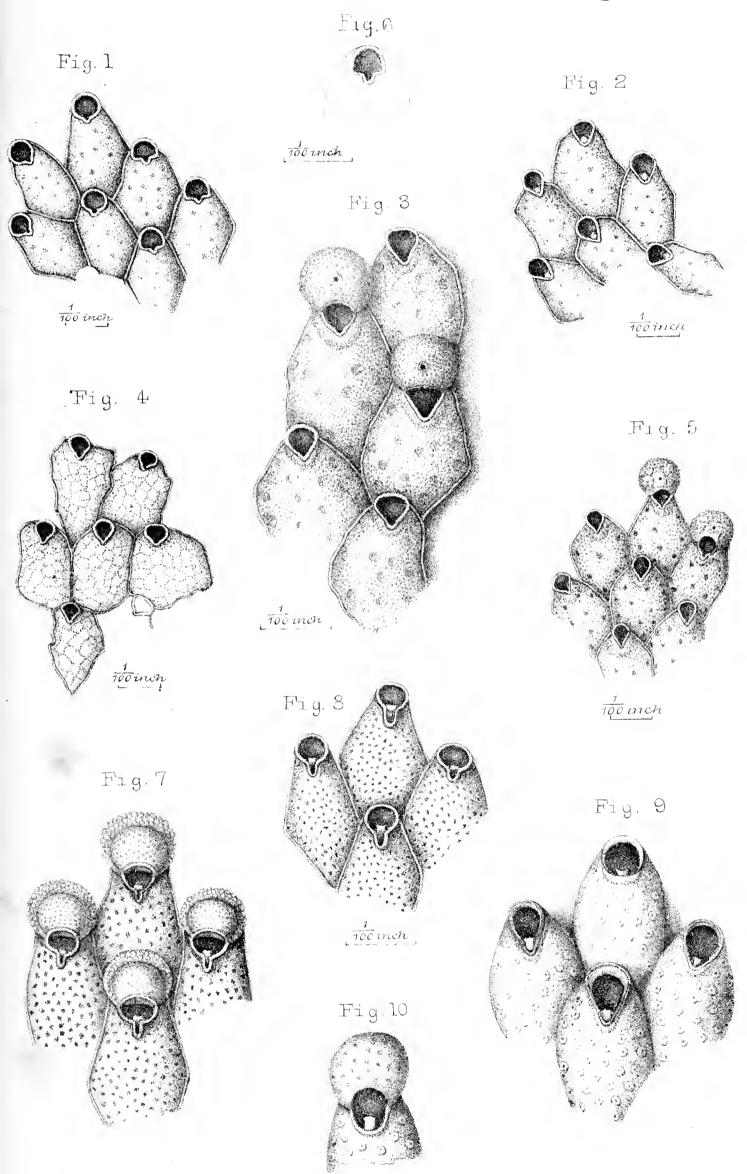
London: John Van Voorst, MDCCCLXXIX.



4			
• 1			
• 1			
120			
389			
,	•		
*			
100			
6.5			

# PLATE XLII.

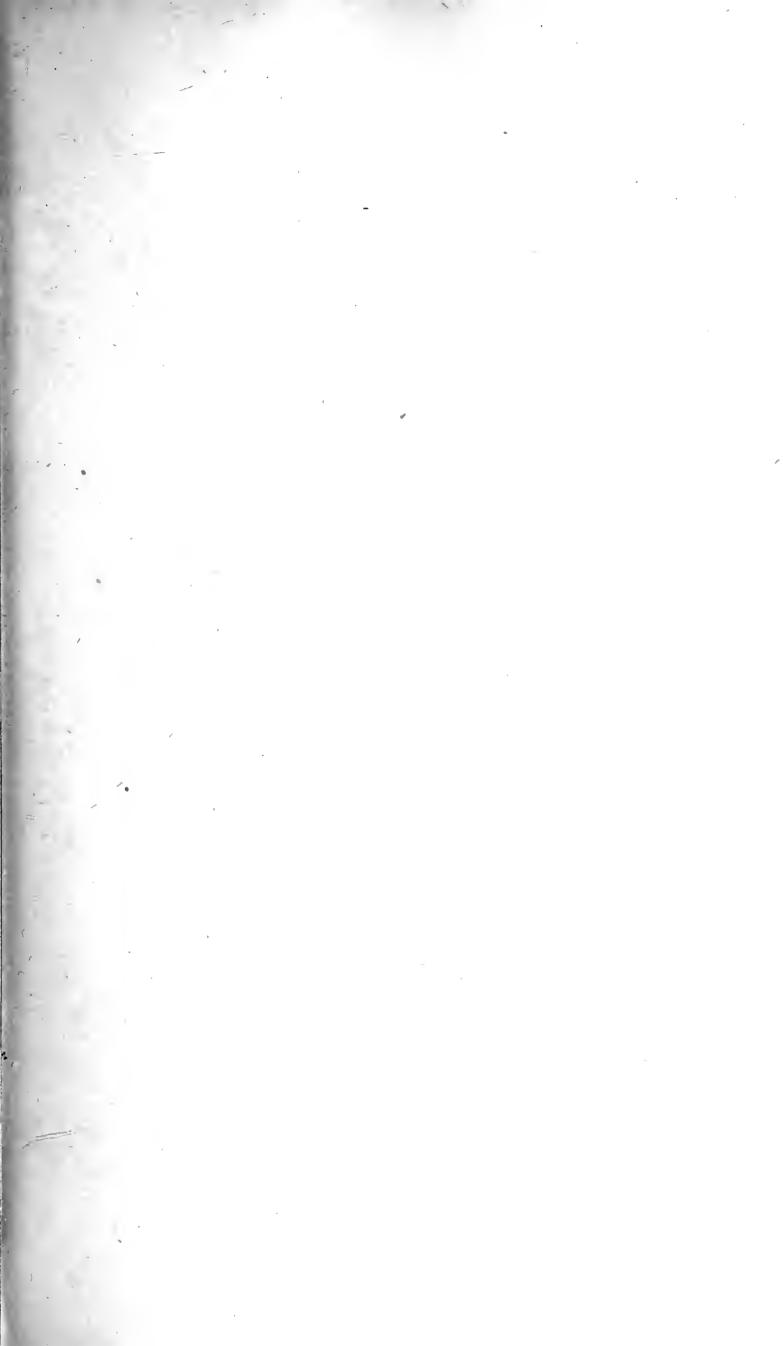
slightly developed.  2. ——————————————————————————————————	FIG.	
<ol> <li>2. ————, var. a (armata).</li> <li>3. ————, with numerous large foramina, and or showing the central pore.</li> <li>4. ————, tessellated var.</li> <li>5. ————.</li> <li>6. ————, a young cell showing the primary original chellostoma, p. 349; with oœcia.</li> <li>8. ————.</li> <li>9. Smittia bella, p. 352. After Busk.</li> </ol>	1.	Schizoporella sinuosa, p. 266; with the peristome
<ol> <li>3. ————, with numerous large foramina, and or showing the central pore.</li> <li>4. ————, tessellated var.</li> <li>5. ————.</li> <li>6. ————, a young cell showing the primary original chellostoma, p. 349; with oœcia.</li> <li>8. ————.</li> <li>9. Smittia bella, p. 352. After Busk.</li> </ol>		slightly developed.
showing the central pore.  4. ———, tessellated var.  5. ———.  6. ———, a young cell showing the primary originary originary.  7. Smittia cheilostoma, p. 349; with oœcia.  8. ———.  9. Smittia bella, p. 352. After Busk.	2.	——————————————————————————————————————
4. ————, tessellated var.  5. ————.  6. ————, a young cell showing the primary originary originary.  7. Smittia chellostoma, p. 349; with oœcia.  8. ————.  9. Smittia bella, p. 352. After Busk.	3.	, with numerous large foramina, and oœcia
<ol> <li>5. ———.</li> <li>6. ———, a young cell showing the primary oring.</li> <li>7. Smittia chellostoma, p. 349; with oœcia.</li> <li>8. ———.</li> <li>9. Smittia bella, p. 352. After Busk.</li> </ol>		showing the central pore.
<ul> <li>6. ———, a young cell showing the primary oring.</li> <li>7. Smittia chellostoma, p. 349; with oœcia.</li> <li>8. ———.</li> <li>9. Smittia bella, p. 352. After Busk.</li> </ul>	4.	, tessellated var.
<ul> <li>7. Smittia cheilostoma, p. 349; with oœcia.</li> <li>8. ———.</li> <li>9. Smittia bella, p. 352. After Busk.</li> </ul>	5.	
8. ———. 9. Smittia bella, p. 352. After Busk.	6.	, a young cell showing the primary orifice.
9. Smittia Bella, p. 352. After Busk.	7.	Smittia cheilostoma, p. 349; with oœcia.
	8.	<del></del> .
10. ————, with occium. Ditto.	9.	Smittia Bella, p. 352. After Busk.
	10.	————, with occium. Ditto.



TH. del A.T. Hollick lith.

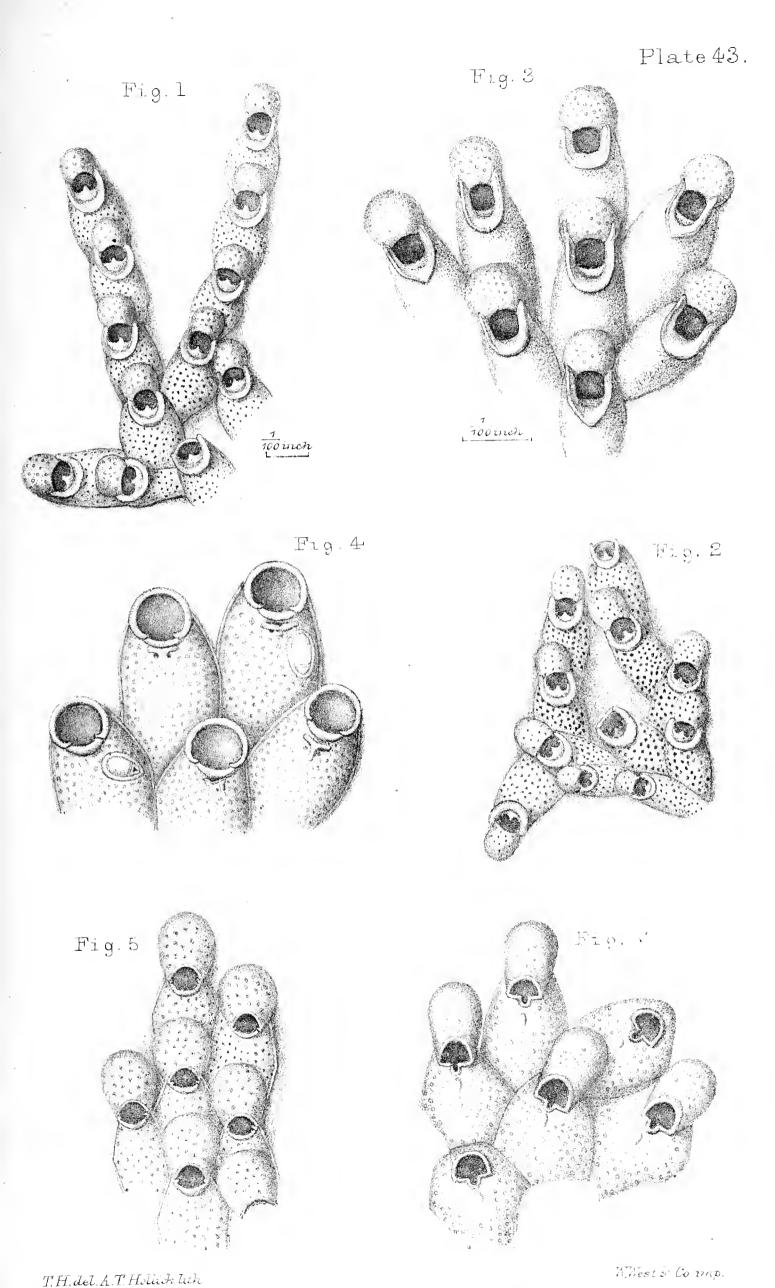
W. West & Co imp.





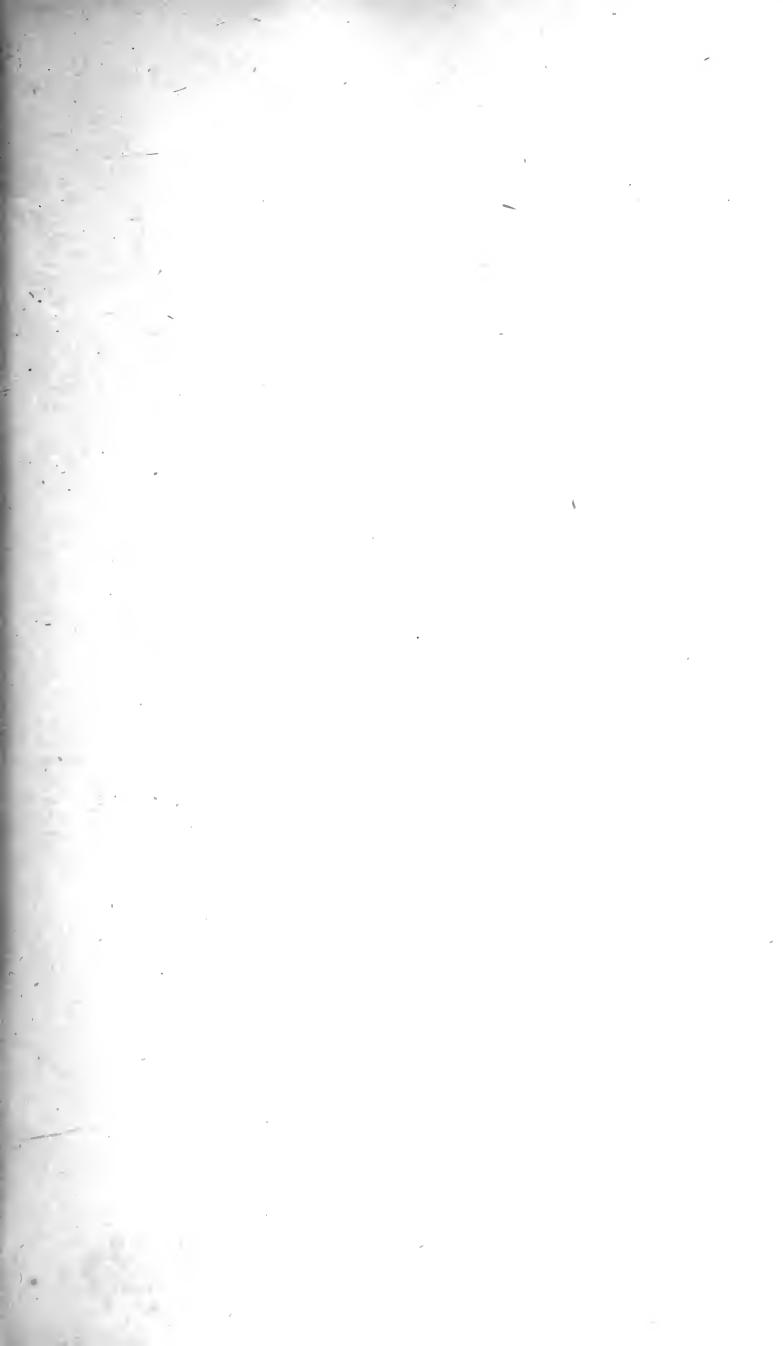
#### PLATE XLIII.

PHYLACTELLA LABROSA, p. 357.
 ————.
 PHYLACTELLA COLLARIS, p. 358.
 LEPRALIA PERTUSA, p. 305; with avicularia.
 ————.
 Schizoporella Cecilii, p. 269.



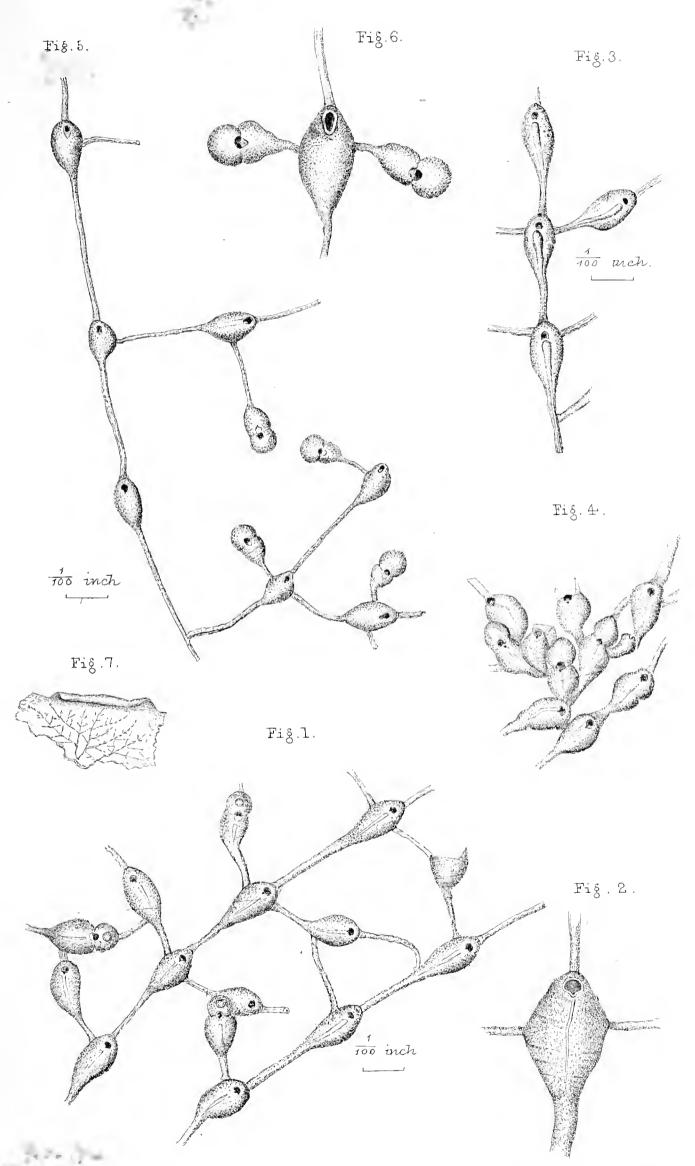
London John Van Voorst, MDCCCLXXIX.





### PLATE XLIV.

FIG.	
1.	Нірротнол divaricata, p. 288. See Plate I. fig. 2.
2.	———, single cell, to show the form of orifice.
3.	——, var. $\beta$ (carinata).
4.	——, var. a (conferta).
5.	Hippothoa flagellum, p. 293.
6.	, zoœcium, showing form of orifice, with ovieelligerous eells attached.
7.	——————————————————————————————————————



TH, dd. A.T. Hollick lith.

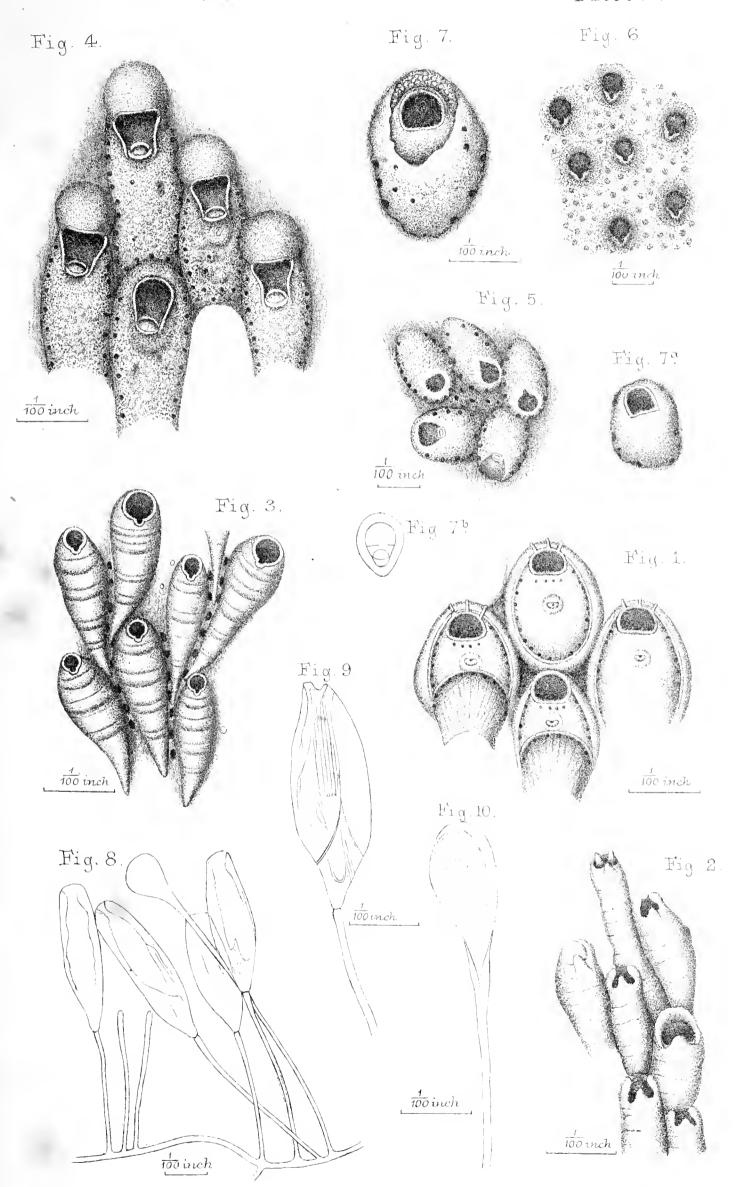
West, Ne man & C: unqu.



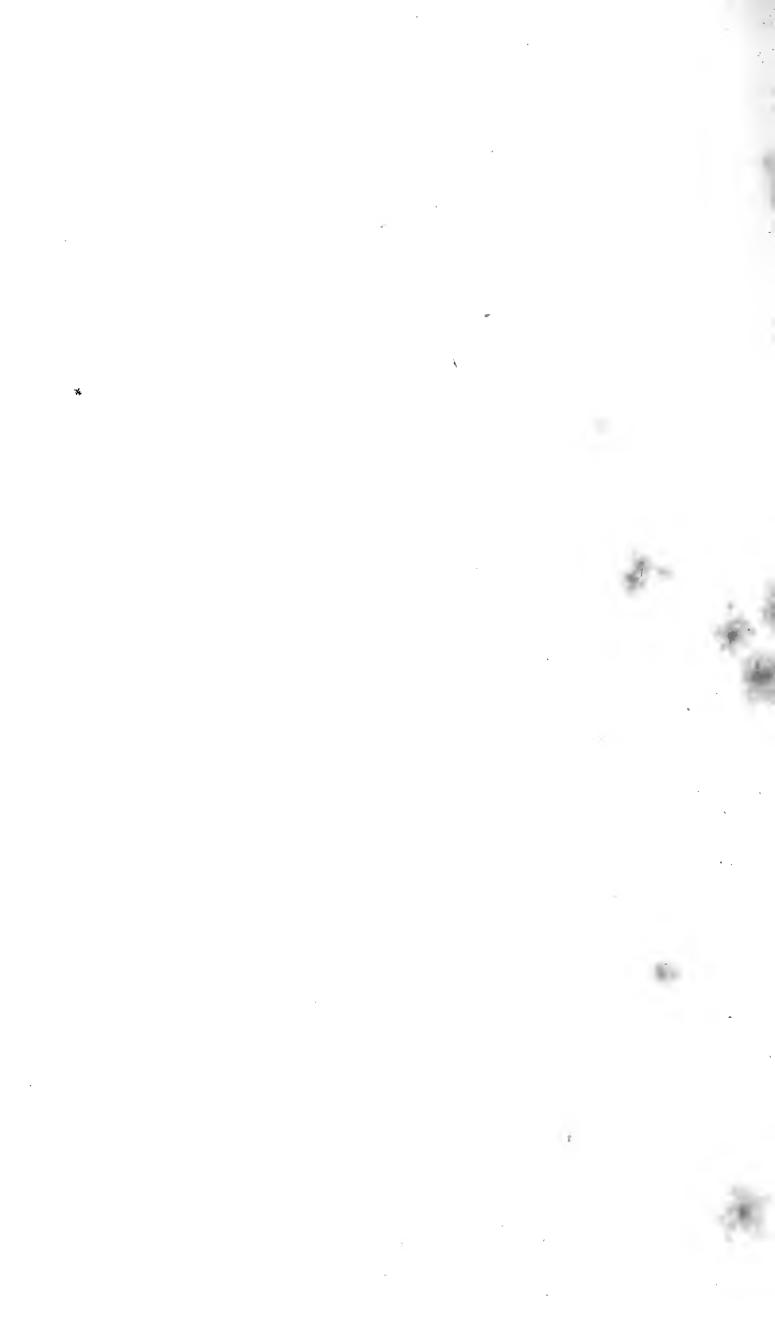


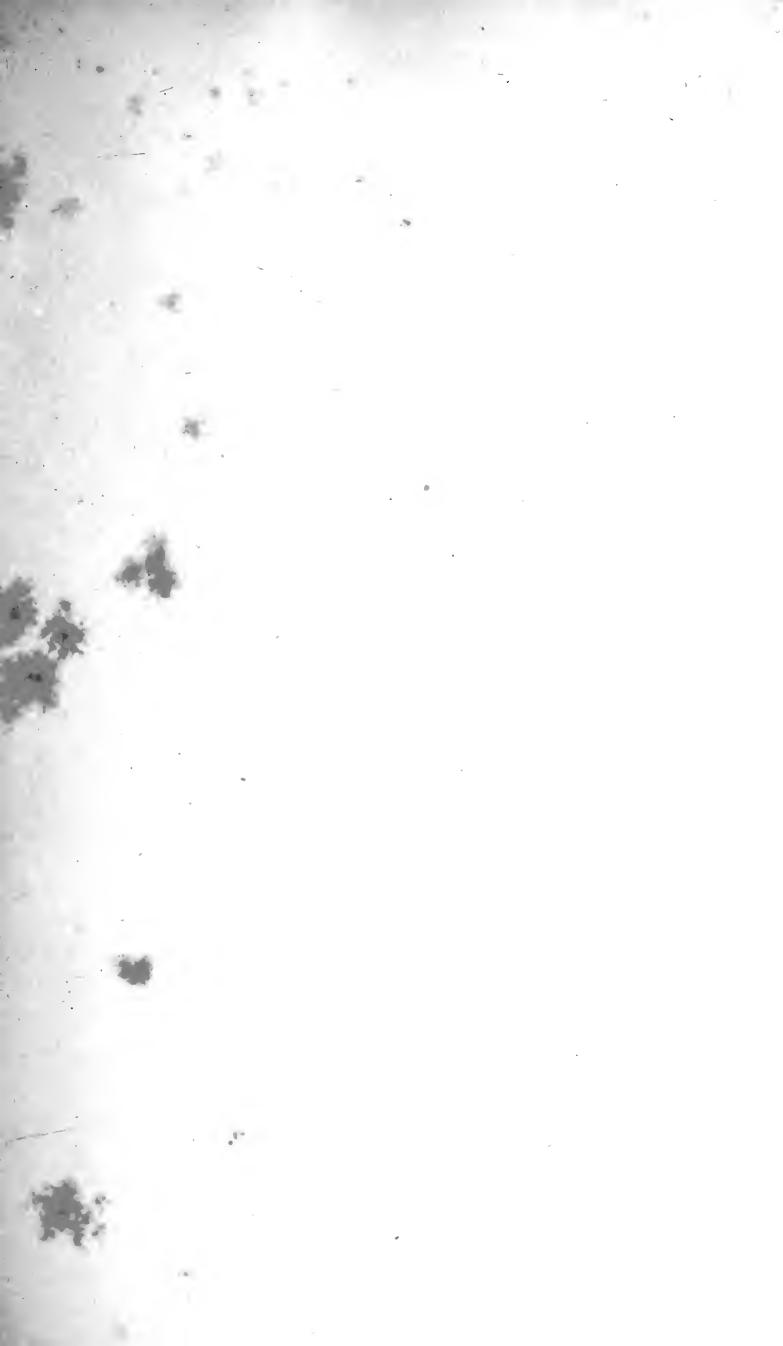
#### PLATE XLV.

FIG. 1. MICROPORELLA Malusii, var. THYREOPHORA, p. 212. 2. Schizoporella hyalina, var. cornuta, p. 273. 3. — , var. from Santa Cruz, with elongated cell, p. 274. 4. Porella compressa, p. 330; zoœcia. See woodcut, p. 322. 5. ————, detached group of cells on the surface of the zoarium. 6. ----, zoœcia deeply immersed and with sinuated orifice. 7, 7 a. ——, showing the primary orifice: 7 b, outline of adult orifice.



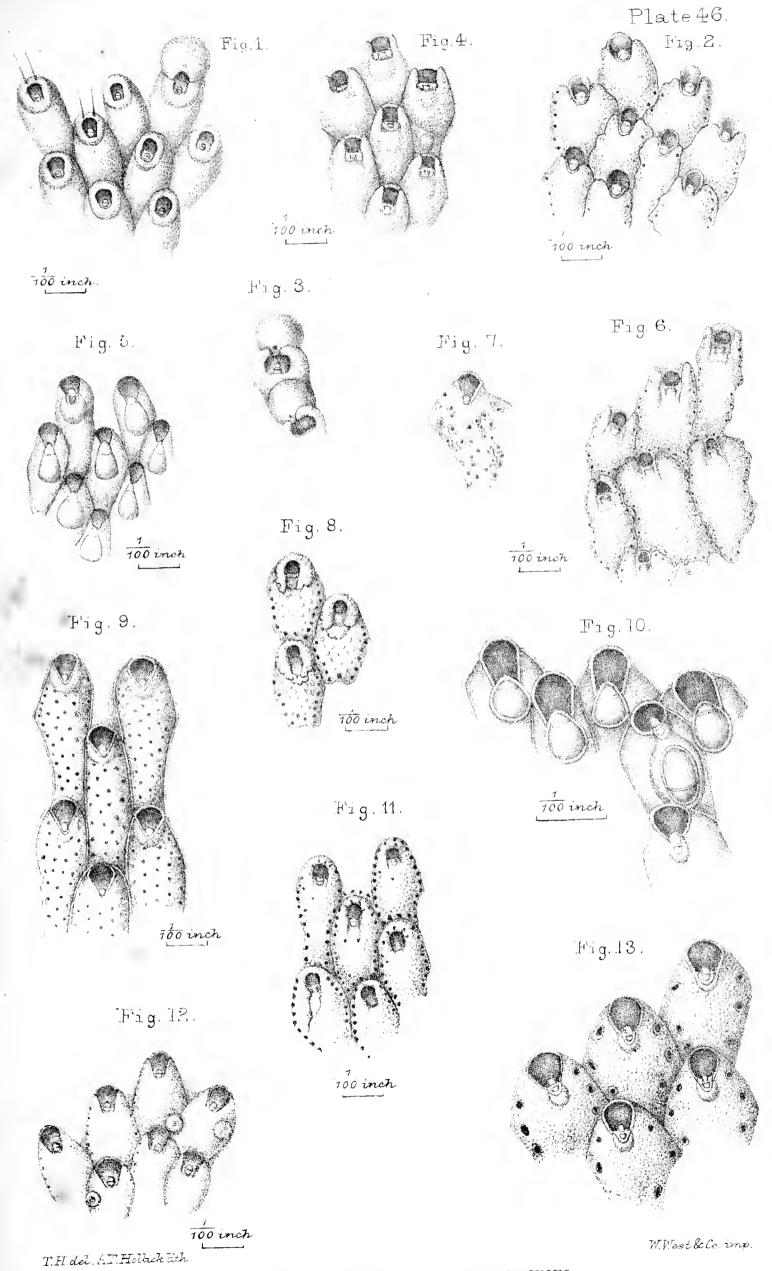
T.H. del A.T. Hollick lith.





# PLATE XLVI.

ish speci-
itral pore
•
cimen.
ivicularia.
}



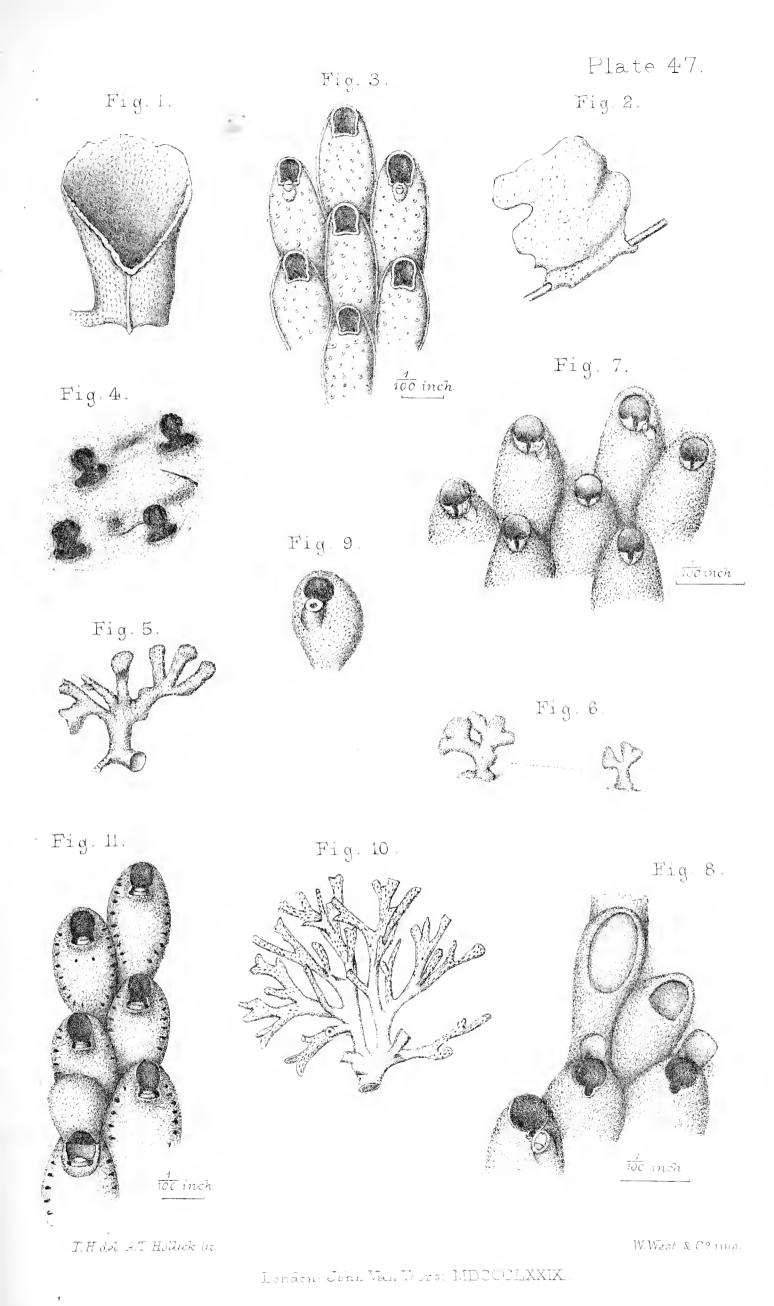
Lordon, John Van Voorst, MDCCCLXXIX.

X.	
	*
	·
	•
	•
	-
•	
	*

The state of the s		1.4
• , •		
	•	
•		
	•	
,		
*		
	•	
`		
	•	
4		
`	_	
,		
•		
- Mary Control of the		
	*	
	, a	
		,

### PLATE XLVII.

FIG.	
1.	LEPRALIA FOLIACEA, p. 300; one of the chambers of the foliated zoarium.
2.	—————, a young specimen clasping a stem. After Milne-Edwards.
3.	, normal zoœcia.
4.	——, var. $\beta$ (BIDENTATA).
5.	Escharoides rosacea, p. 336; from a remarkably fine specimen of Mr. Norman's, about nat. size.
6.	, nat. size.
7.	, adult zoœcia.
8.	, cluster of cells from the margin of a colony.
9.	, a young zoœcium, showing the avicula- rium before it is inclosed by the secondary orifice.
10.	Porella lævis, p. 334, nat. size.
11.	——————————————————————————————————————

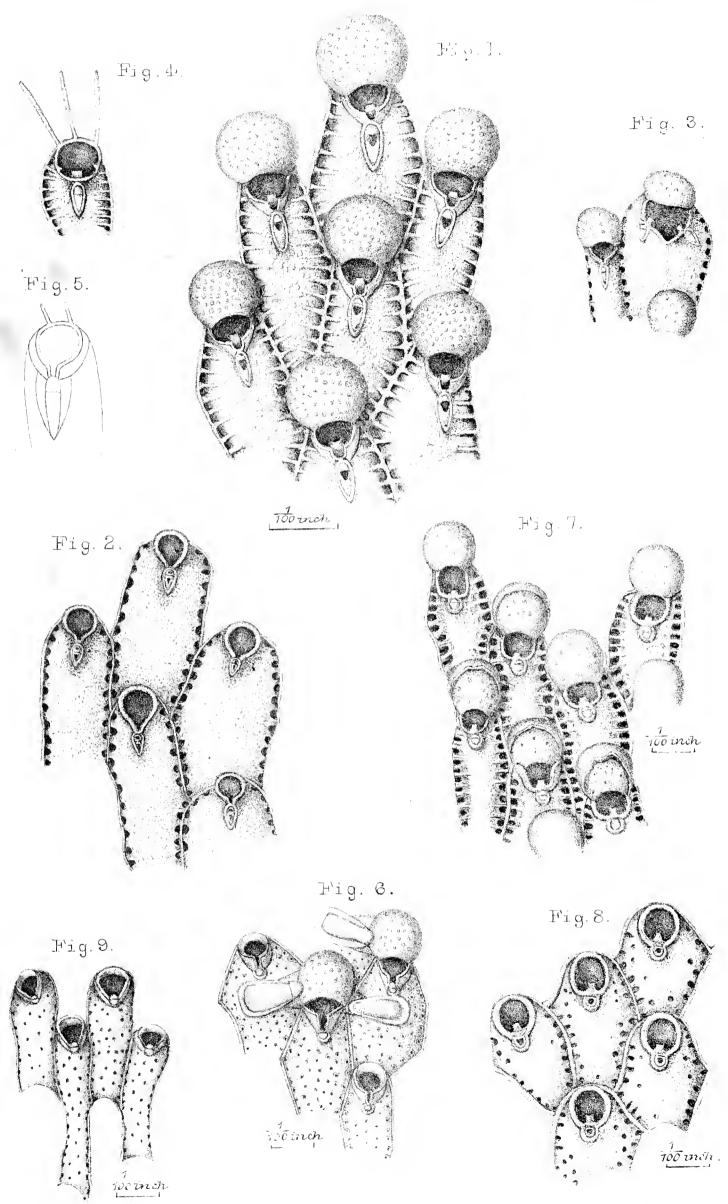


						- 3
			,			6
4						
						3
					1	
					_	
						•
						**
£ • £						
						,
	1.2					.=
				· k.		
÷.)						
					1.2	
			<u>.</u>			
		4.				
				÷4.		-



# PLATE XLVIII.

FIG.	
1.	Smittia reticulata, p. 346; with occia.
2.	, var.
3.	———, monstrosity; union of two cells.
4.	, young cell.
5.	, outline of a single adult cell.
6.	Smittia Landsborovii, p. 341.
7.	, old and highly calcified.
8.	, with the peristome slightly developed.
9.	, with elongate and narrow cells.



T.H. del A.T.Hollick but. W. West & Co. irnp.

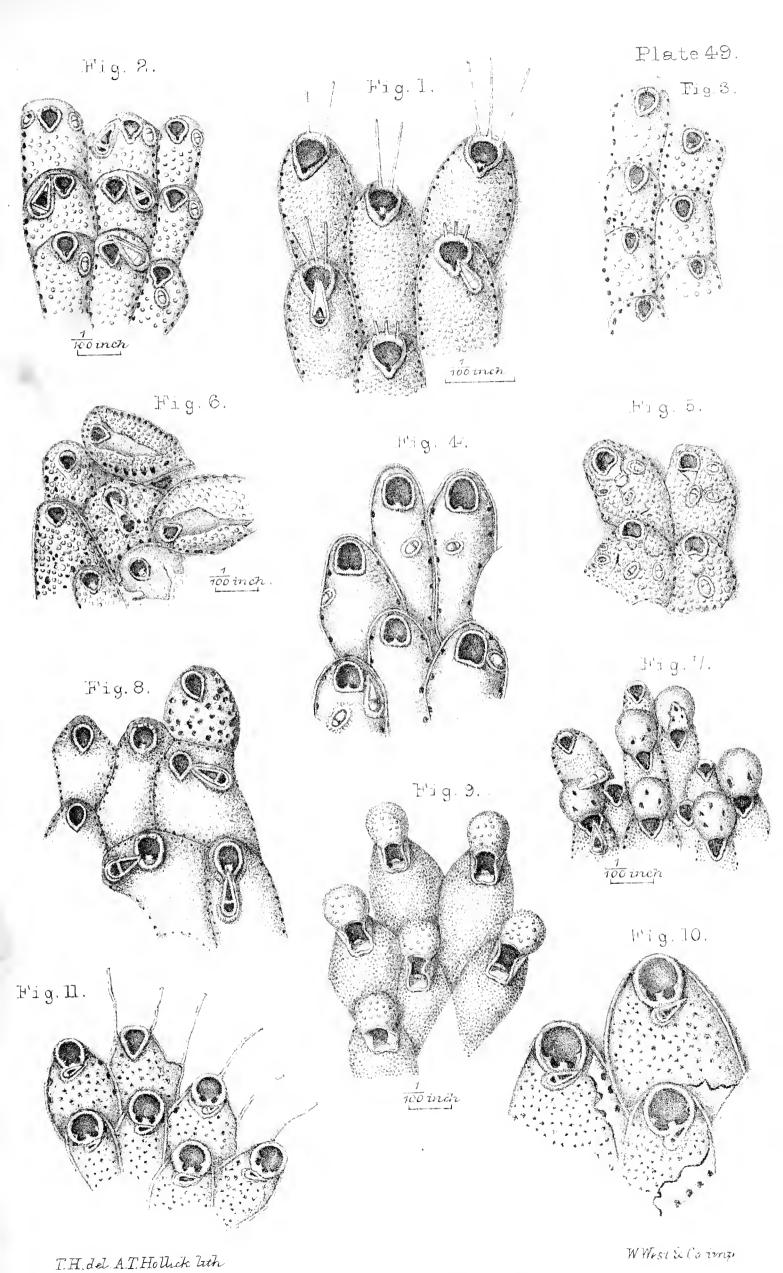
				10.	
			,		
					•
				,	41
					20
			(		
			:		4
					0.0
3 <b>1</b> 2				1	
					. *
	640				
		9			
			*4		4.
		*			
					8
					•
		i je		*.	42



## PLATE XLIX.

FIG.	
1-3. Ѕміт	ria trispinosa, p. 353; vars.
4. ——	—, var. α (Jeffreysi).
	——, var. without raised peristome and with numerous oval avicularia.
6. ——	, old and highly calcified.
7	——, with oœcia.
8	, smooth, marginal cells.
9. Phyla	CTELLA EXIMIA, p. 359*.
10, 11. Ѕмітт	ia affinis, p. 348.

<sup>\*</sup> In the text this figure is wrongly numbered 11.



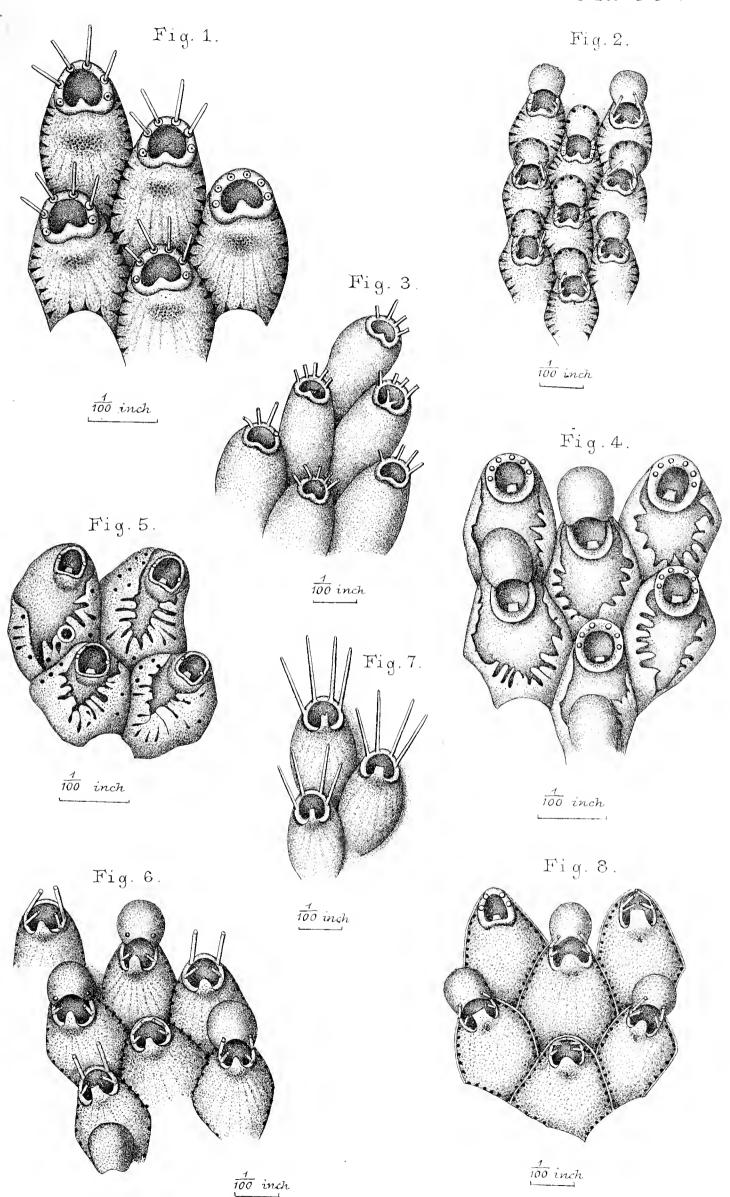
Trondon John Van Voerst, MDCCCLXXIX.



* <u>-</u>		,				
				•		
•						
.*						
				·		
			1			
•						
					•	
•						
	•					
			`			
1						
<b>\</b>				•		
and the second						

### PLATE L.

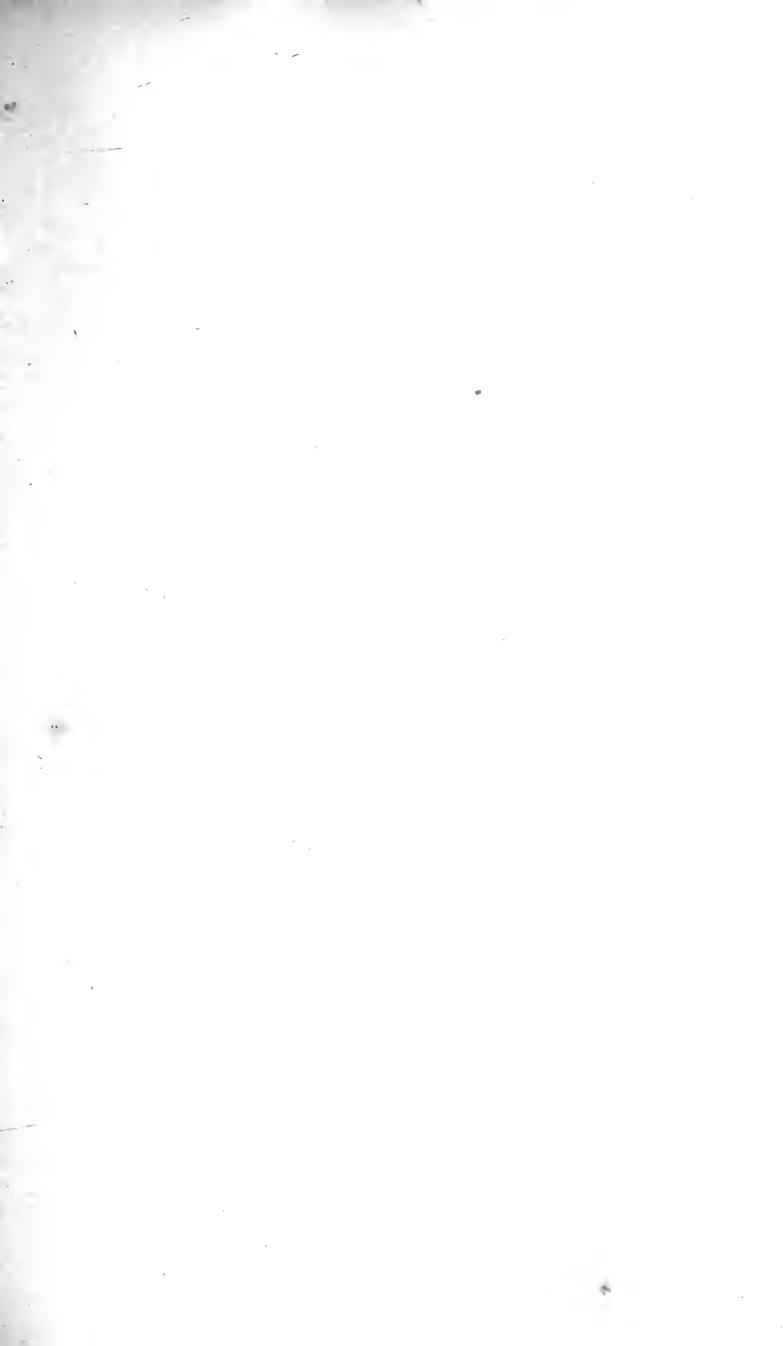
Mucronella Peachii, p. 360. See Plate LI. figs. 1, 2.
 —, smooth form.
 —, old states, showing the growth of the calcareous crust over the surface.
 Mucronella ventricosa, p. 363.
 —, young cells.



T.H. del .A.T. Hollick lith

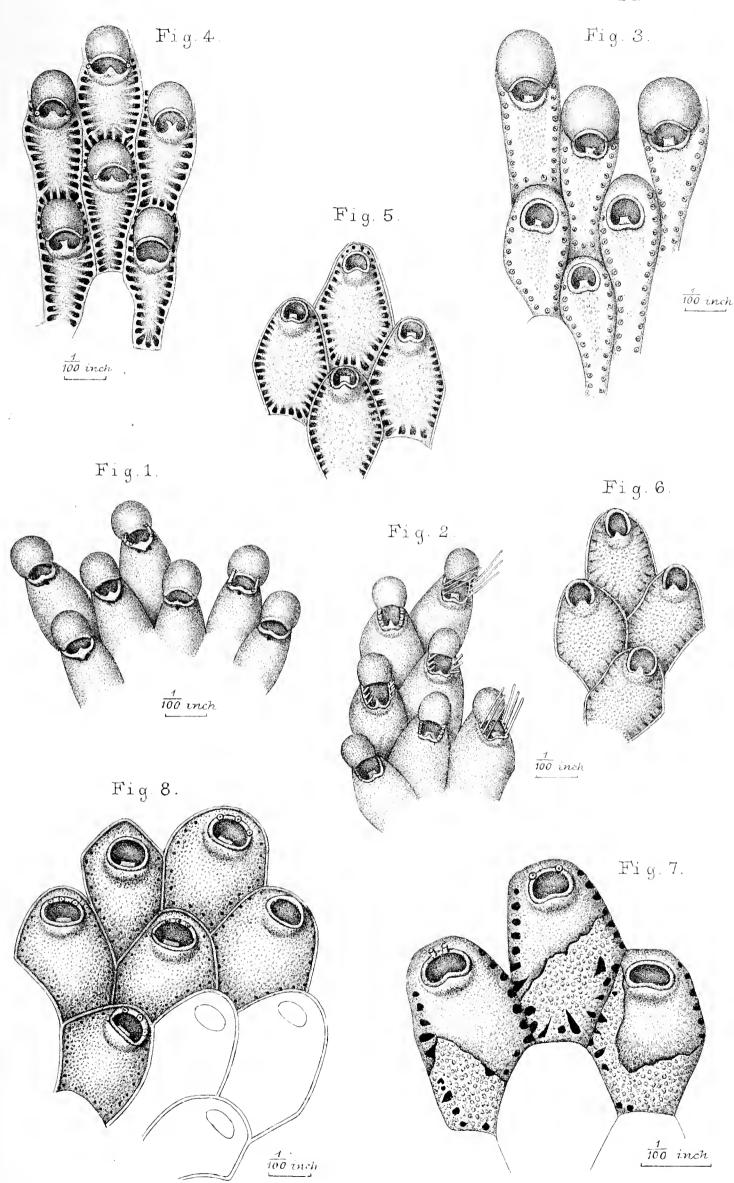
West, Newman & ( inp.





### PLATE LI.

ыс. 1.	Mucronella Peachii, var. α (labiosa), p. 361.
2.	——, var. $\beta$ (octodentata), p. 361.
3-6.	Mucronella variolosa, p. 366; vars.
7.	, showing the growth of the superficial crust.
8.	Mucronella laqueata, p. 368.



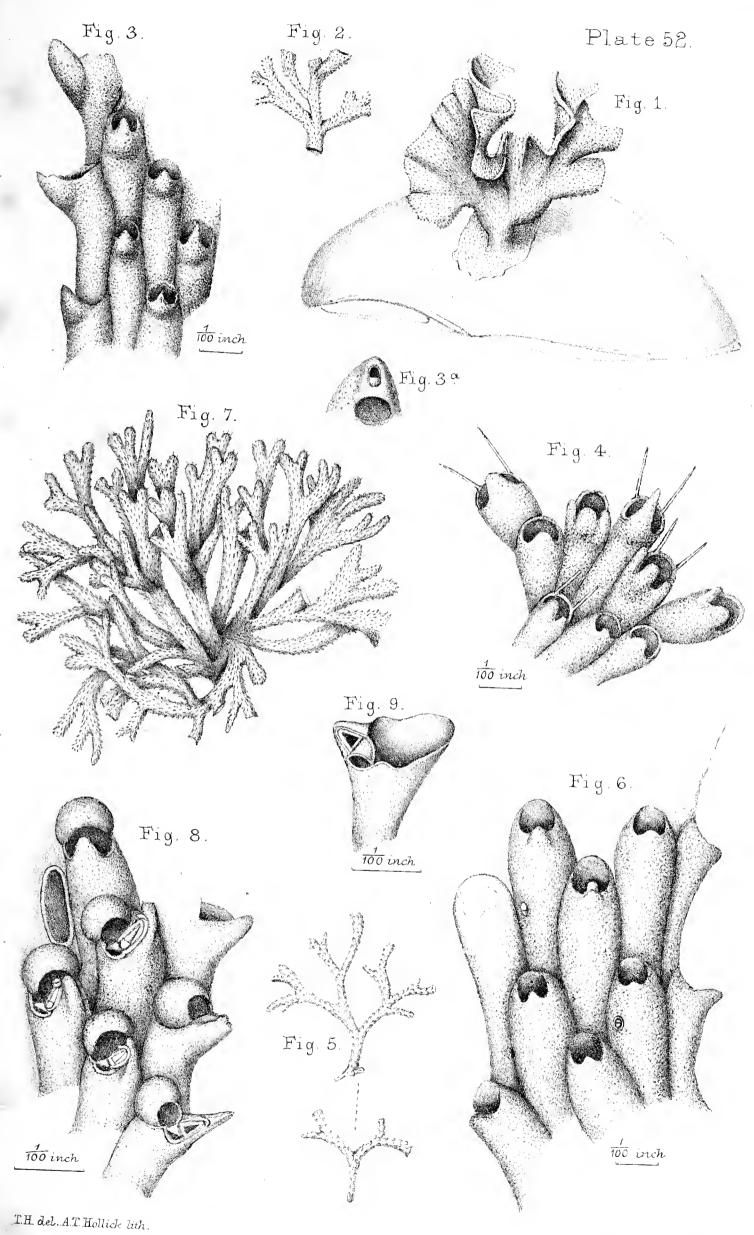
T.H. del. A.T. Hollick lith. West Newman & Co. imp.



			`	
				,
•				
.4				
·				
			4	
•				
	a .			
•				
				4
		9		
		6		

## PLATE LII.

riu.	
1.	Palmicellaria Skenei, p. 379; var. $\beta$ (foliacea), about nat. size; from a beautiful specimen in the possession of Dr. M'Intosh.
2.	———, usual form, nat. size.
3.	, zoœcia.
3 a.	larium.
4.	————, form bicornis.
5, 6.	Palmicellaria lorea, p. 382; nat. size, and zoœcia magnified.
7.	Cellepora ramulosa, p. 401; slightly above nat. size.
8.	——————————————————————————————————————
9.	base of the rostrum.



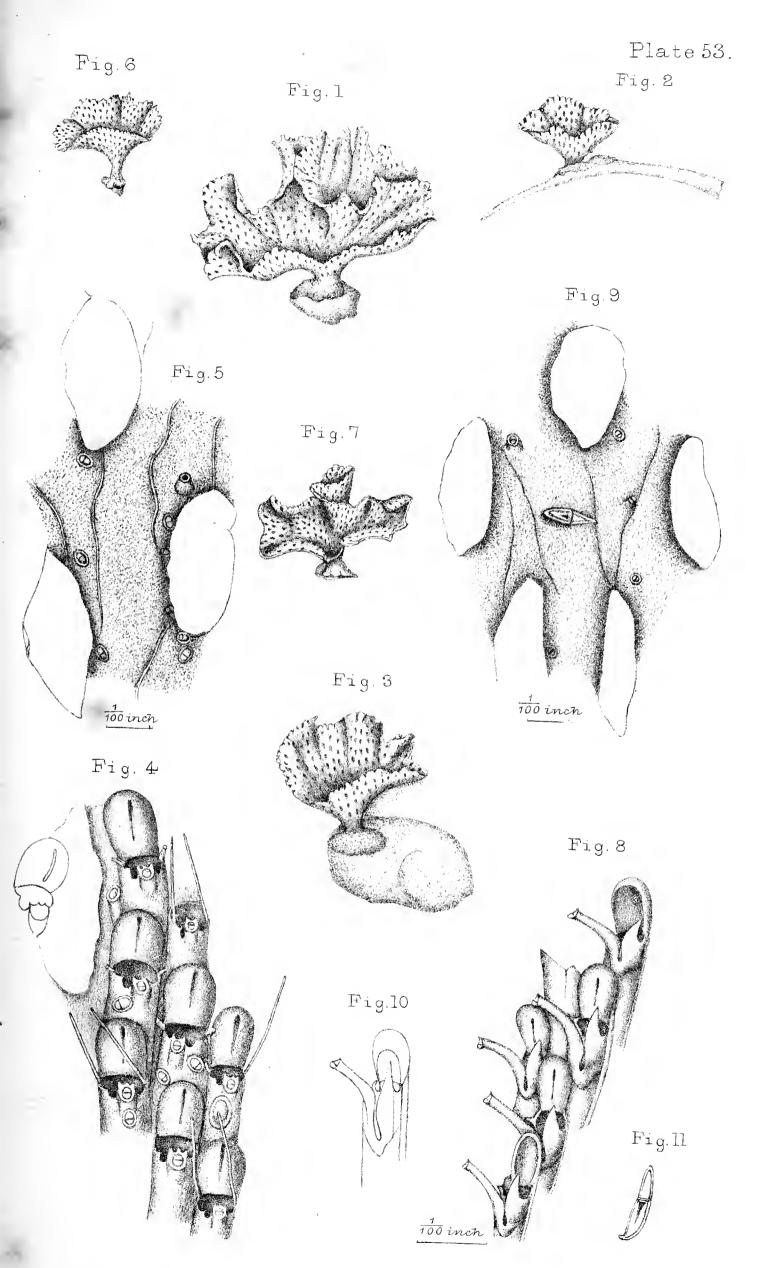
London: John Van Voorst, MDCCCI, XXIX.

West Newman & C? imp.

			1
	<b>)</b>	•	-
		8	, 4
			•
			40.0

## PLATE LIII.

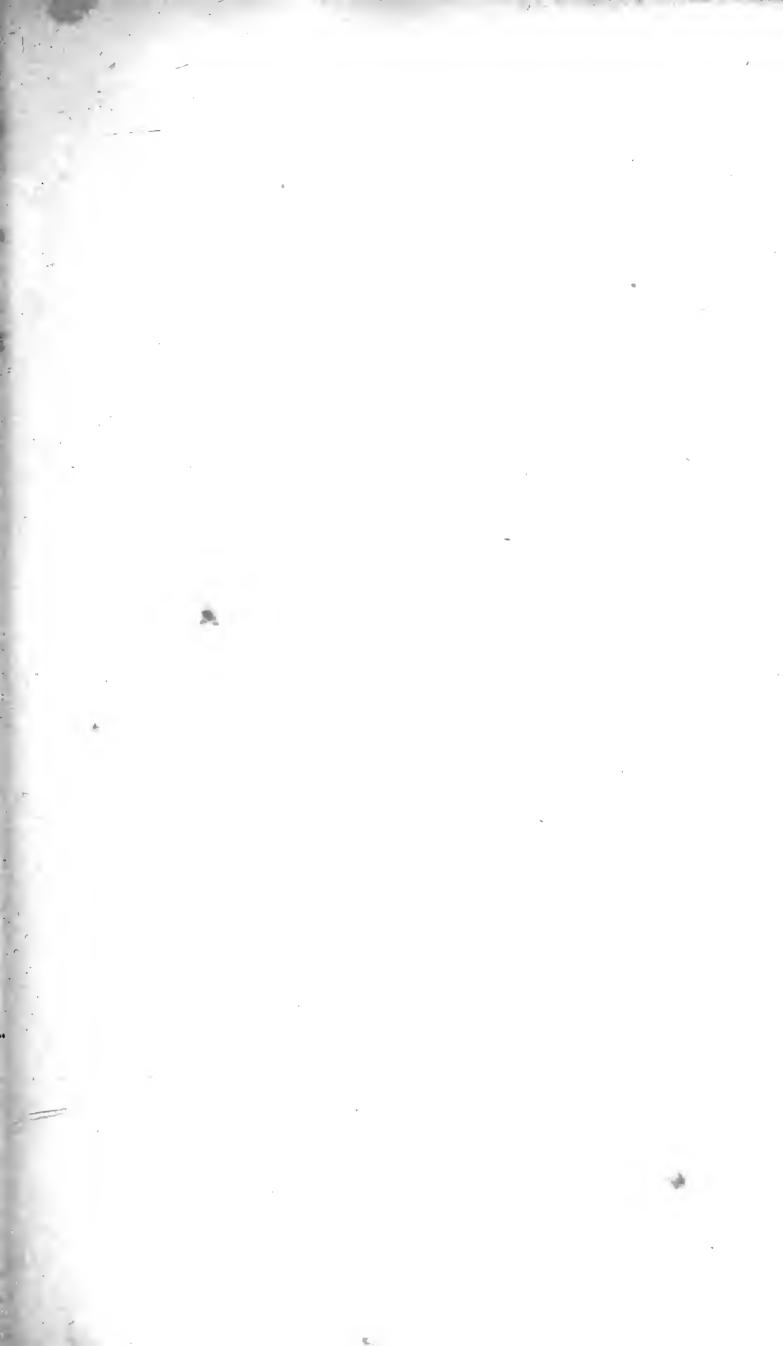
1-3. Retepora Beaniana, p. 391; nat. size
4. ————, zoœcia.
5. ————————————————————————————————————
6, 7. Reтерова Couchii, p. 395; nat. size.
8, 10. ———, zoœcia.
9. ————, dorsal surface.
11. —, elongate avicularium.



T.H. del. A.T. Hollick lith.

W. West & Co. imp.

	•		
			146.
		16	
	•		,
4	-		6
	-		
(%)			
		1	
		9	
			46.
	:32		
			<
**			÷
			-96
	•		
	٠.		
4.5		W 100	

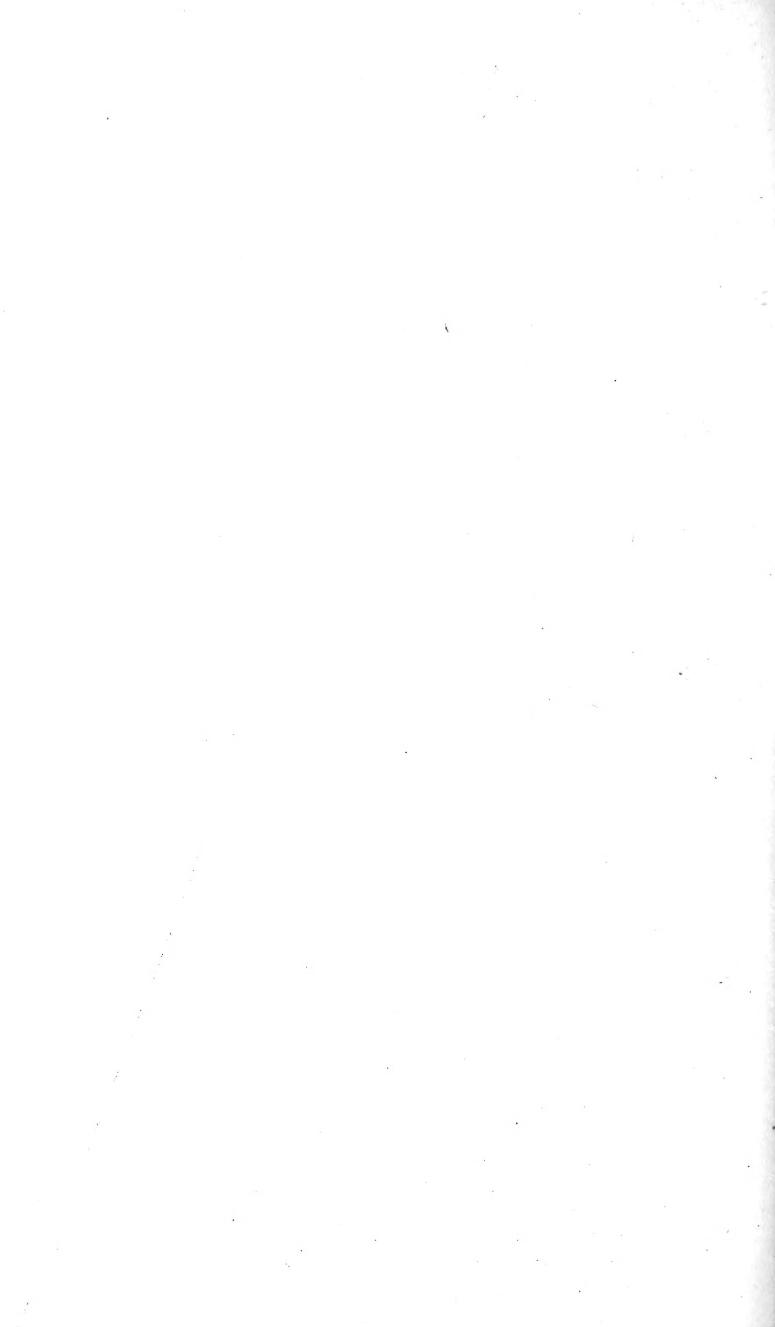


# PLATE LIV.

FIG.	
	Cellepora pumicosa, p. 398; zoœcia from the margin of the colony.
1a, 1b.	, adult zoœcia, showing the form of the rostrum.
2.	, zoœcium with punctured ovicell.
3.	, nat. size; nodulated form on shell, ovoid on stem.
3a.	, ditto, on stone.
4, 5.	Cellepora avicularis, p. 406.
6.	——————, large conical avicularium.
7-9.	Cellepora tubigera, p. 409; from Crag specimens, after Busk.
10, 11.	CELLEPORA ARMATA, p. 410.
12.	, rostrum.
13.	, spatulate avicularium.

T.H. & C. Busk del AT. Hollick lith.

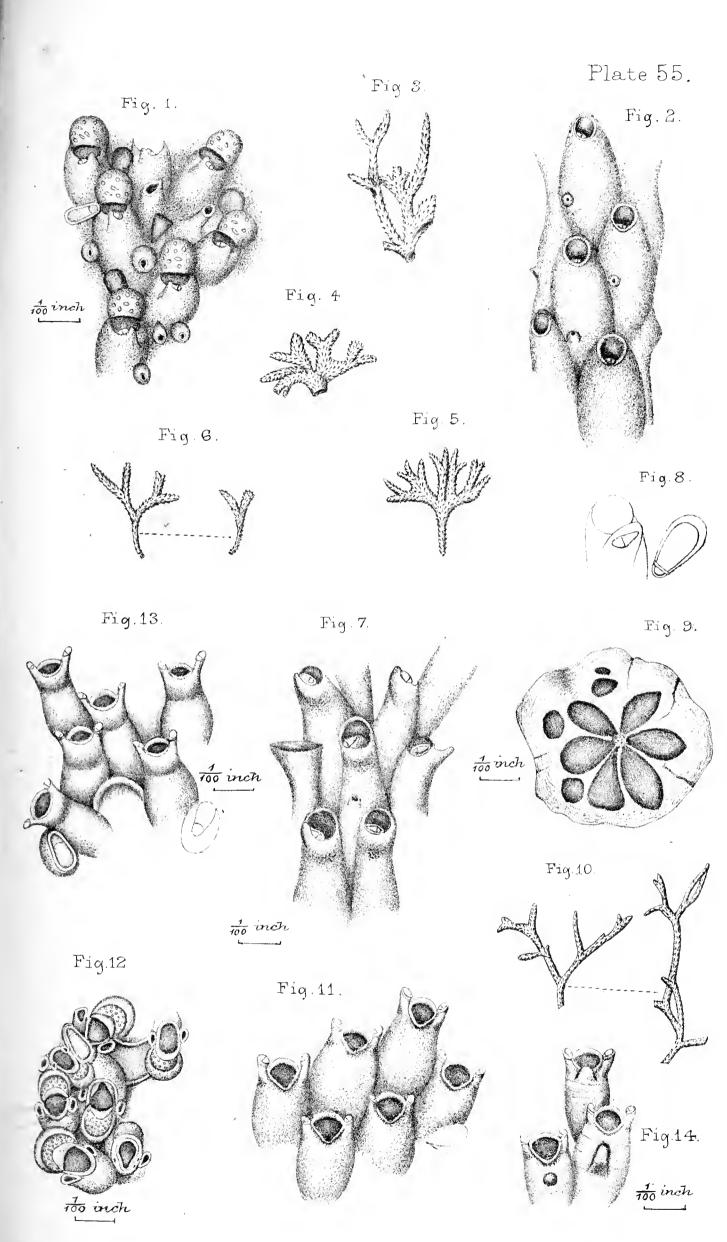
West, Newman & C? imp.





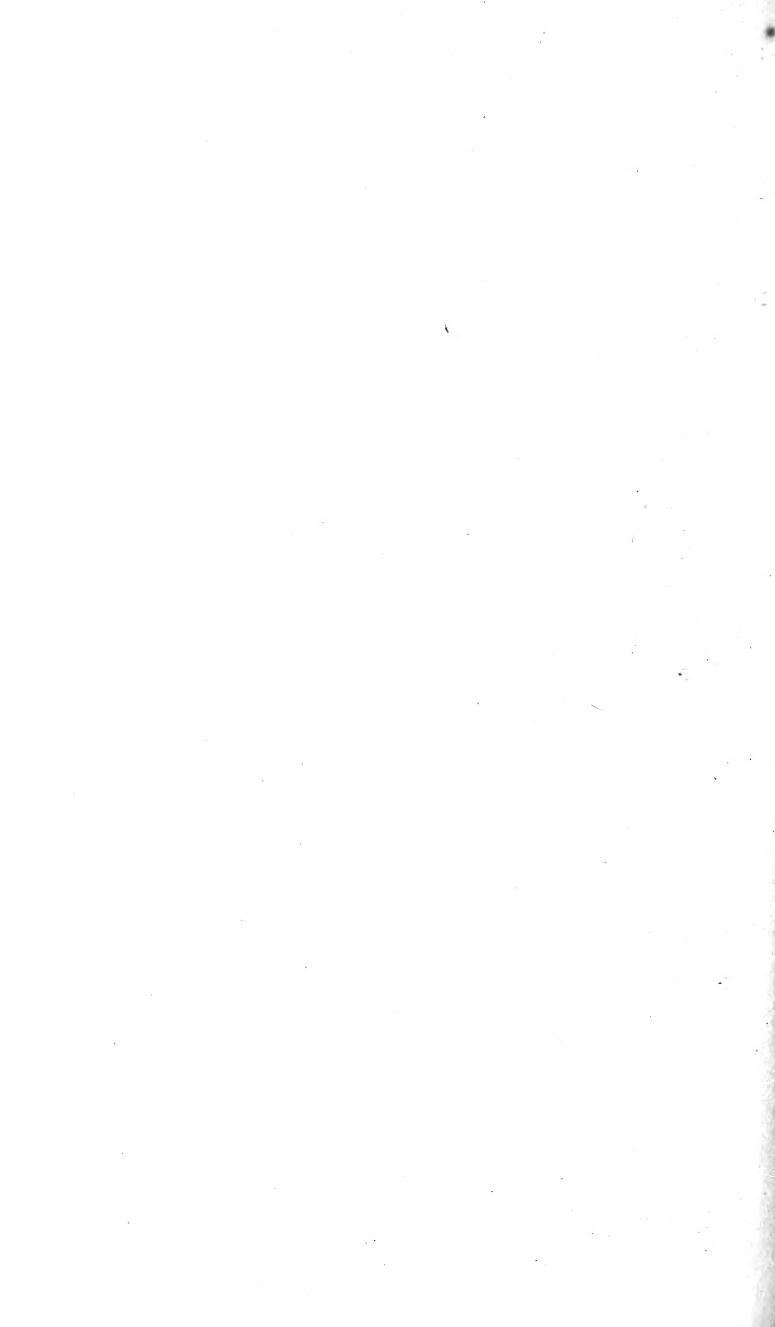
## PLATE LV.

FIG.	
1.	Cellepora dichotoma, p. 403; adult zoœcia.
2.	———, younger cells from the margin of the colony.
3-6.	——————————————————————————————————————
7.	——, var. ATTENUATA, rather young cells.
8.	—————, single cell and spatulate avicularium.
9.	————, section of the stem.
10.	, nat. size.
11,12,14.	Cellepora Costazii, p. 411; normal form.
13.	——, var. a (TUBULOSA).



T.H. del A.T. Hollick lith.

West, Nerman & Co imp



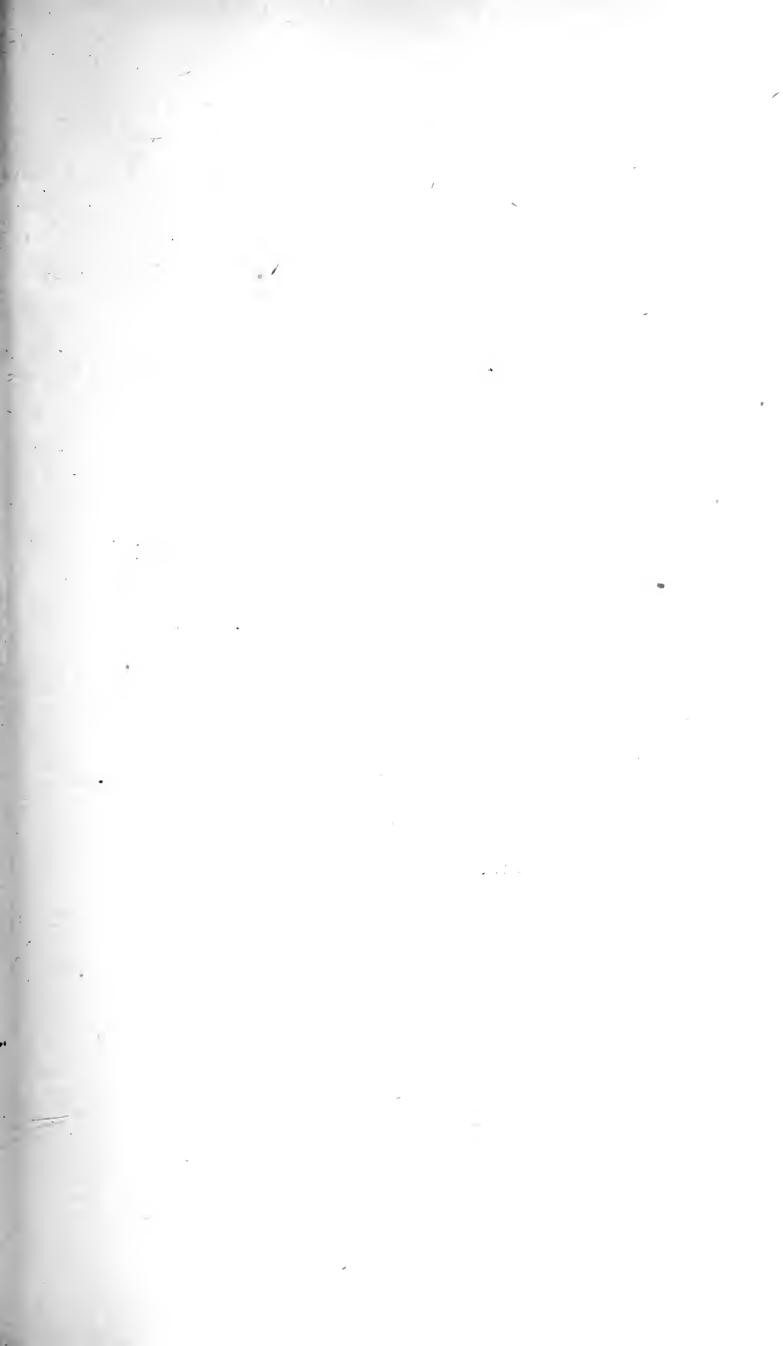


### PLATE LVI.

FIG.	
1.	Crisia cornuta, p. 419.
2.	
3.	<del></del> .
4.	—— , var. geniculata. After Milne-Edwards.
5.	Crisia eburnea, var. aculeata, p. 420.
6.	——————————————————————————————————————
7.	Crisia denticulata, p. 422.
a.	—————, nat. size.
8.	———, one of the radical fibres.
9.	, variety.

T.H. del. A. A. Wollick with

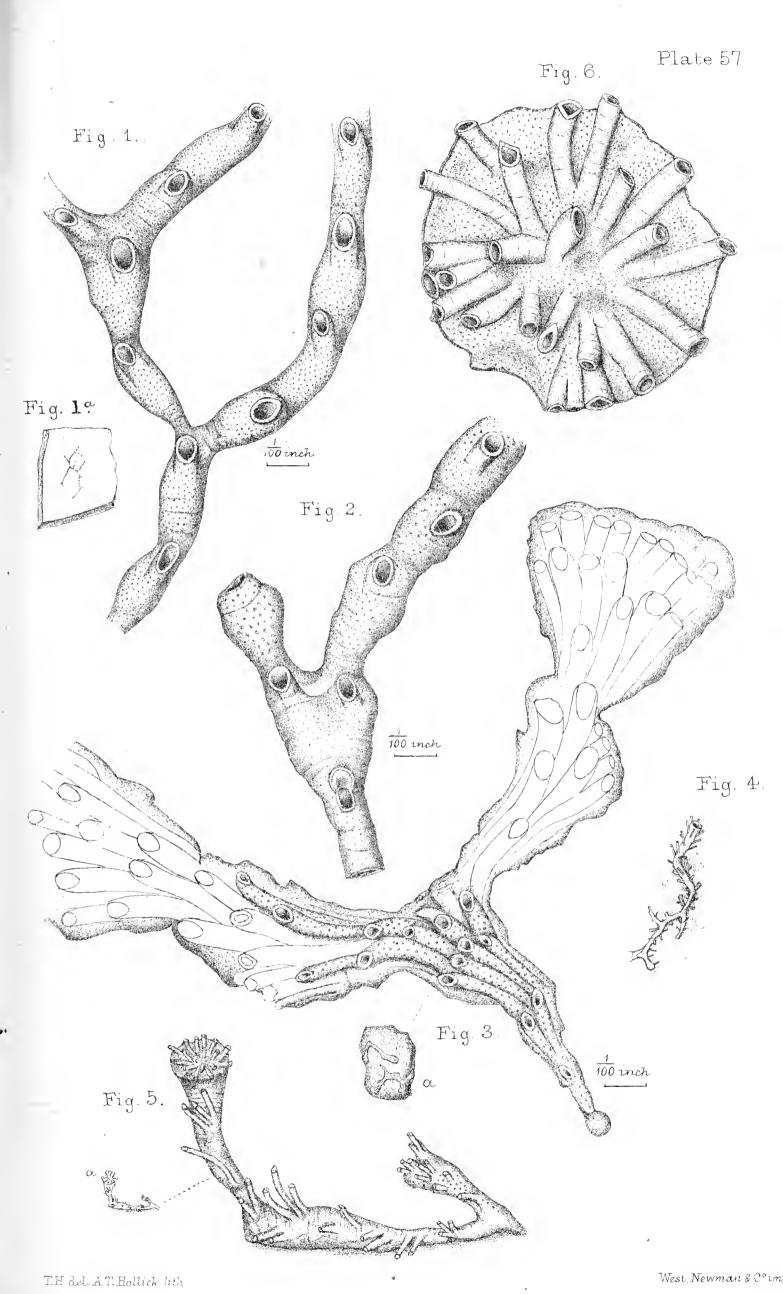
**t** 



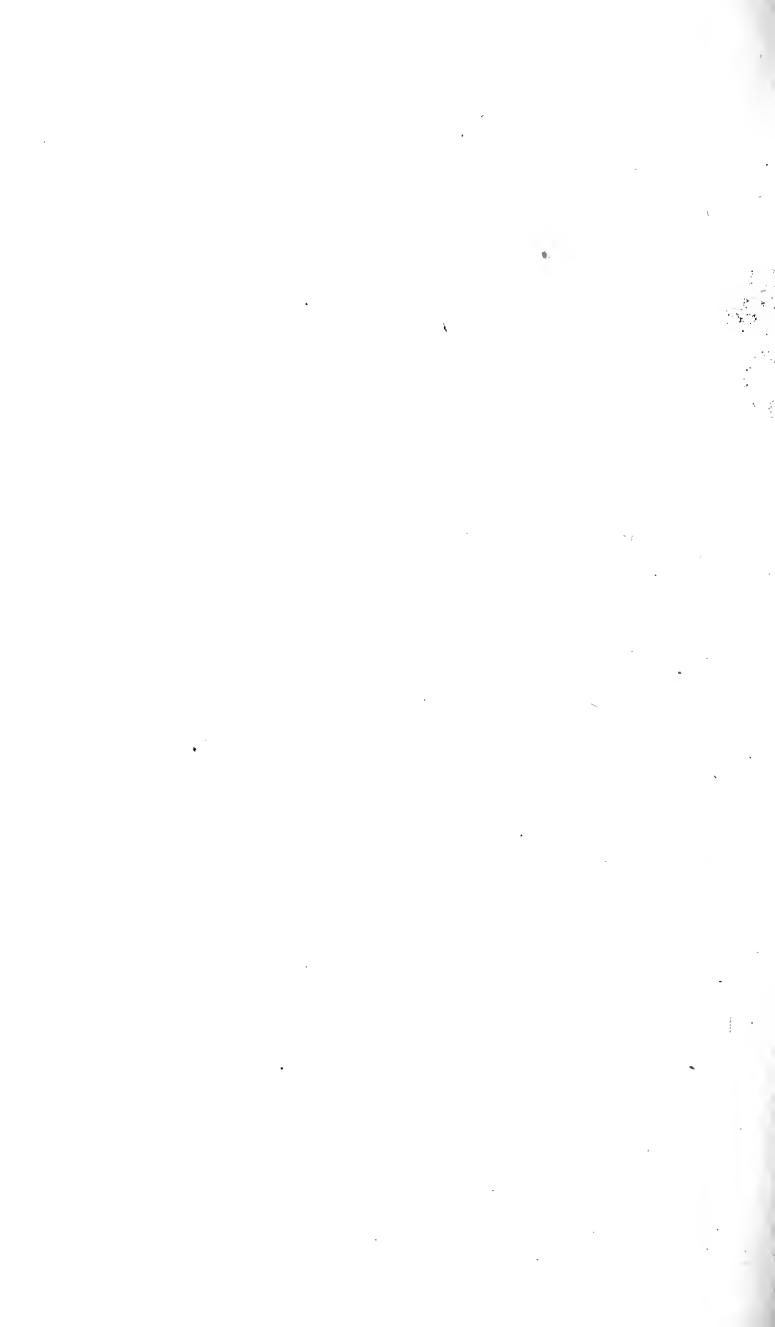
#### PLATE LVII.

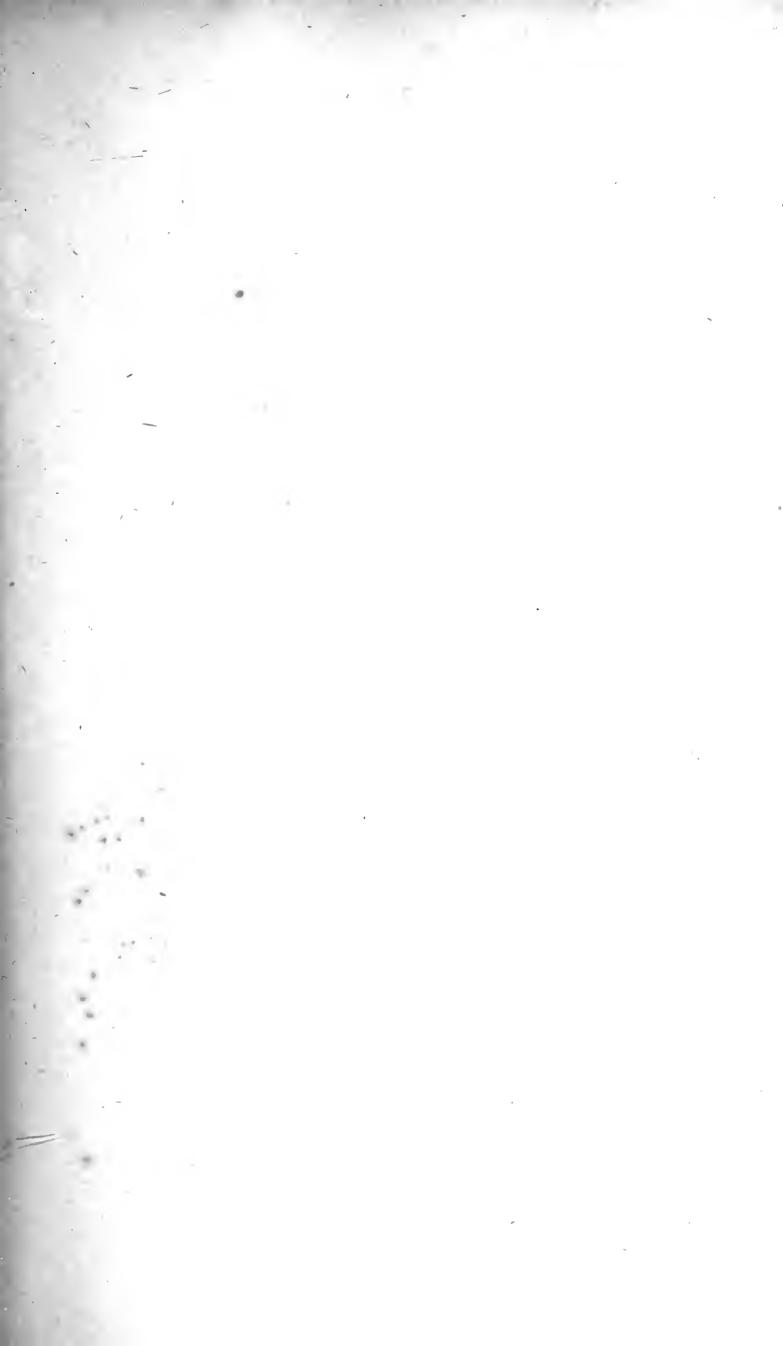
FIG.

- 1, 1 a. Stomatopora granulata, p. 425; enlarged and nat. size.
  - 2. ——, older state.
  - 3. Stomatopora dilatans, p. 429.
  - 3 a. , nat. size.
    - 4. Stomatopora deflexa, p. 437.
    - 5. Ѕтоматорока fungia, р. 438.
    - 6. — , the capitulum.



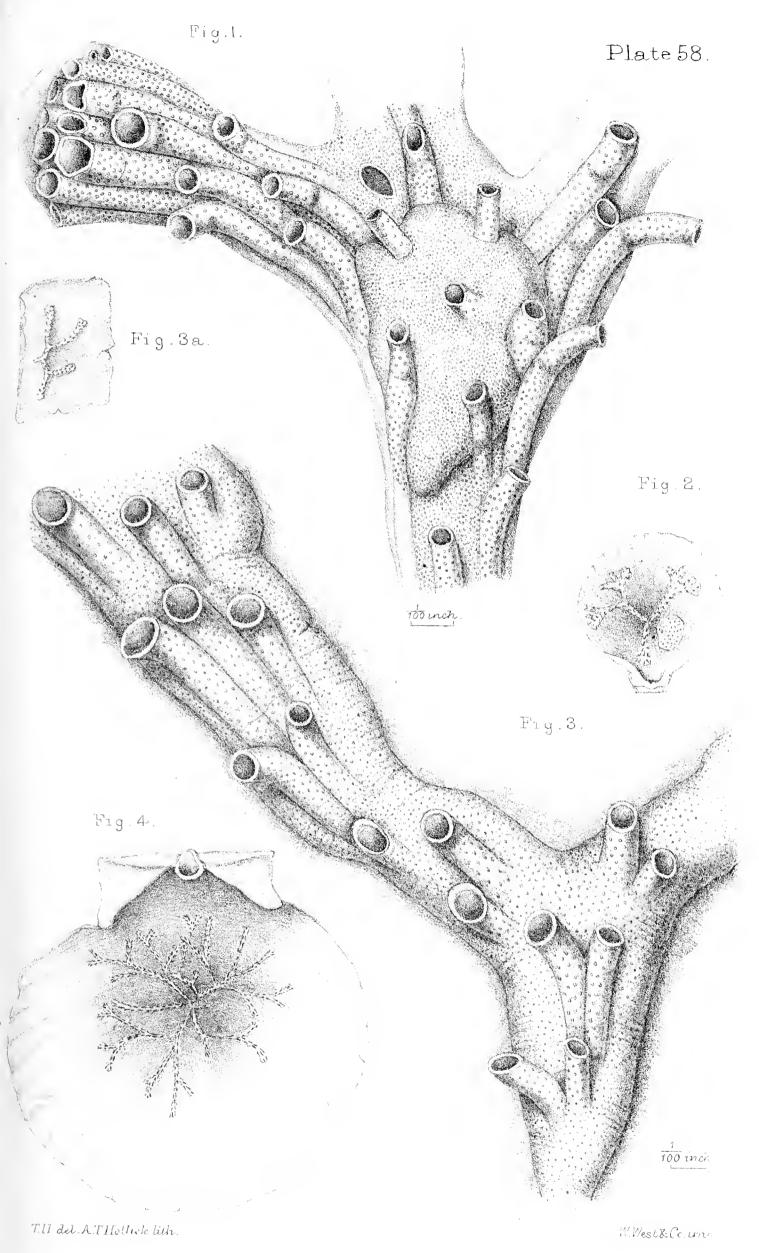
London: John Van Voorst, MDCCCLXXIX.



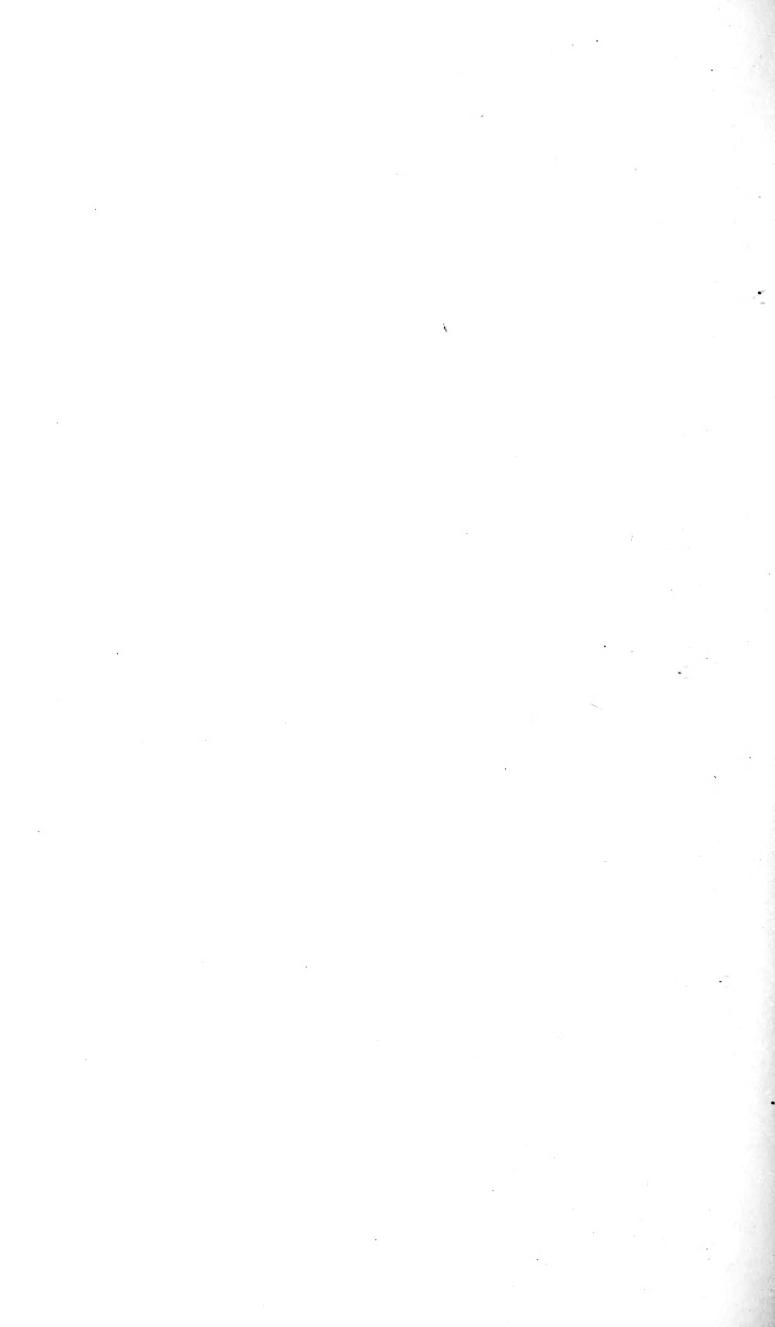


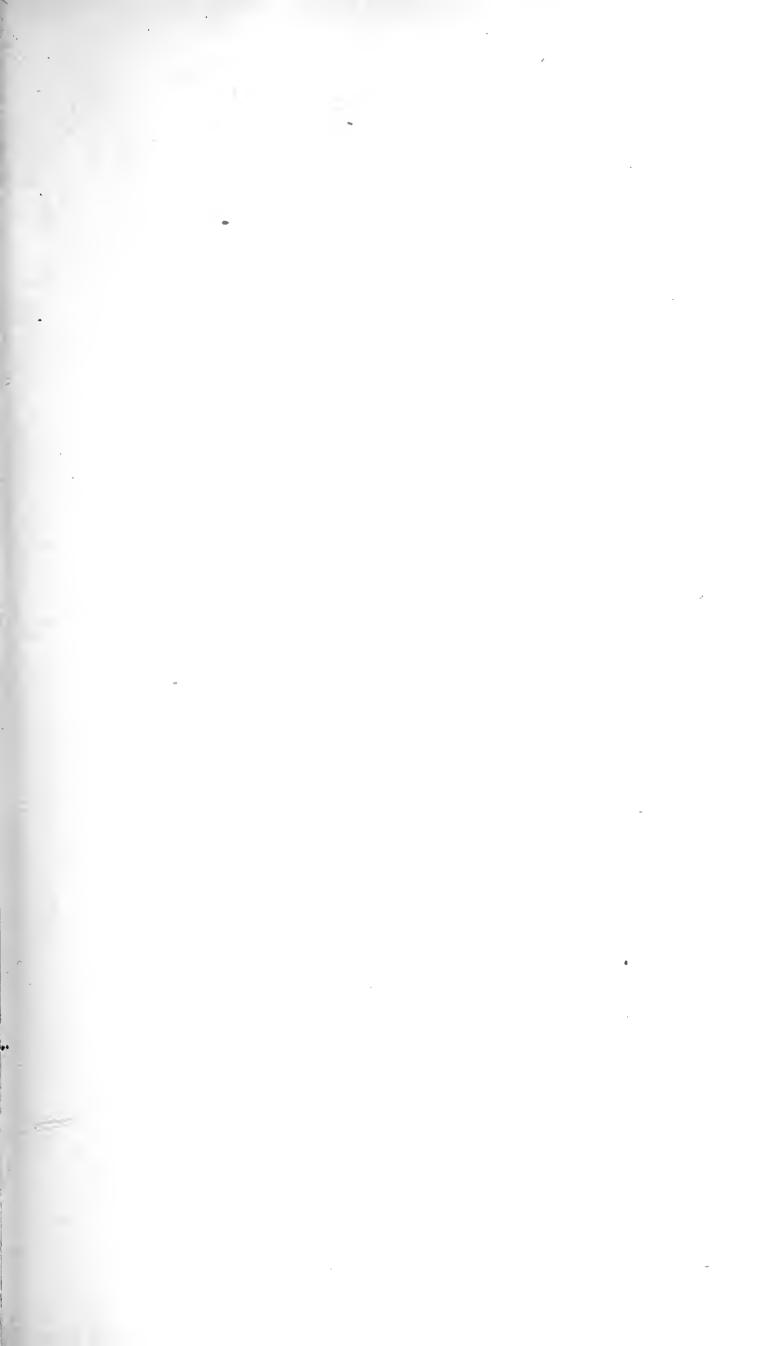
#### PLATE LVIII.

Stomatopora major, p. 427; with occium and triple division of the branch. See Plate LXI.
 —————, nat. size of the above.
 —————, nat. size.
 —————, nat. size.



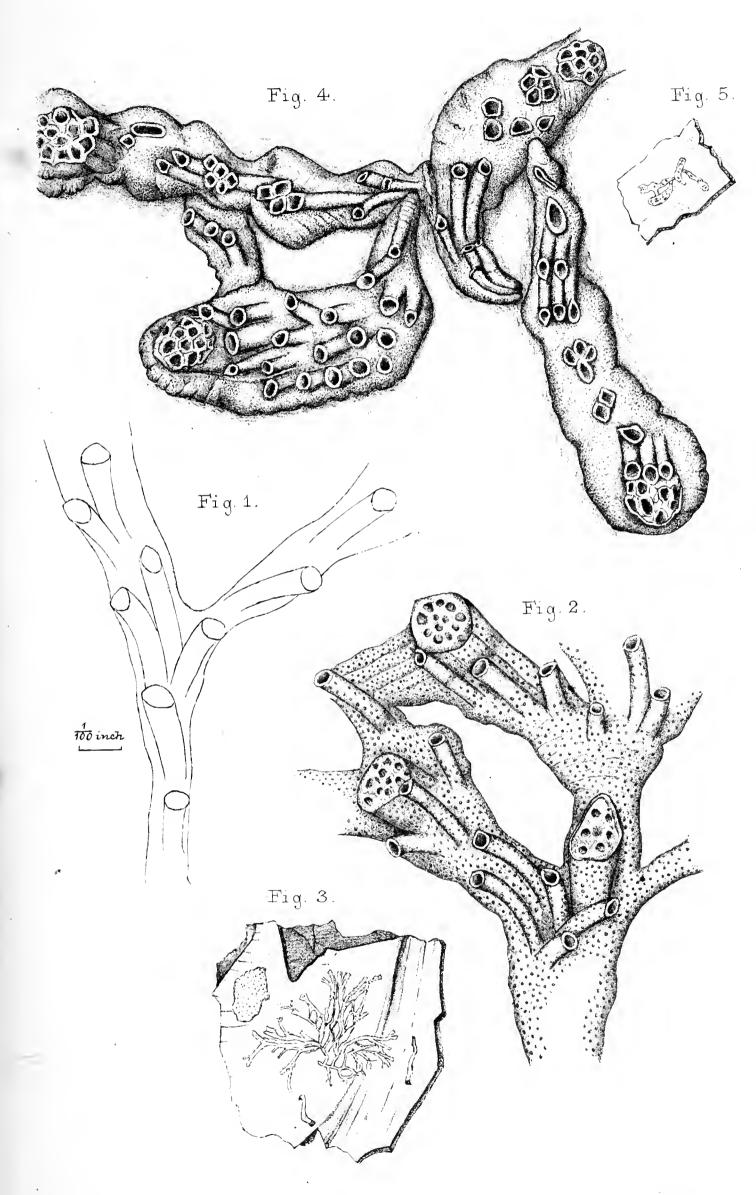
London, John Van Voorst, MDCCCLXXIX.

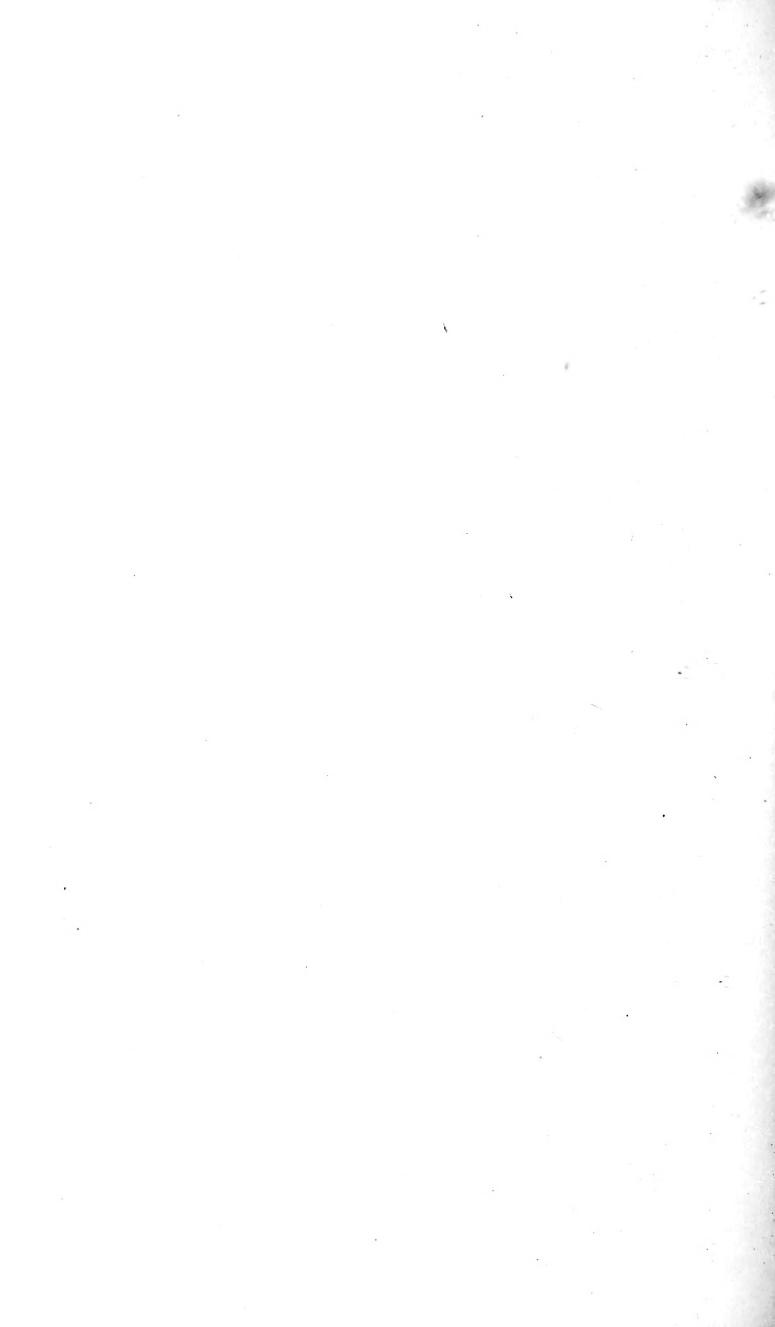


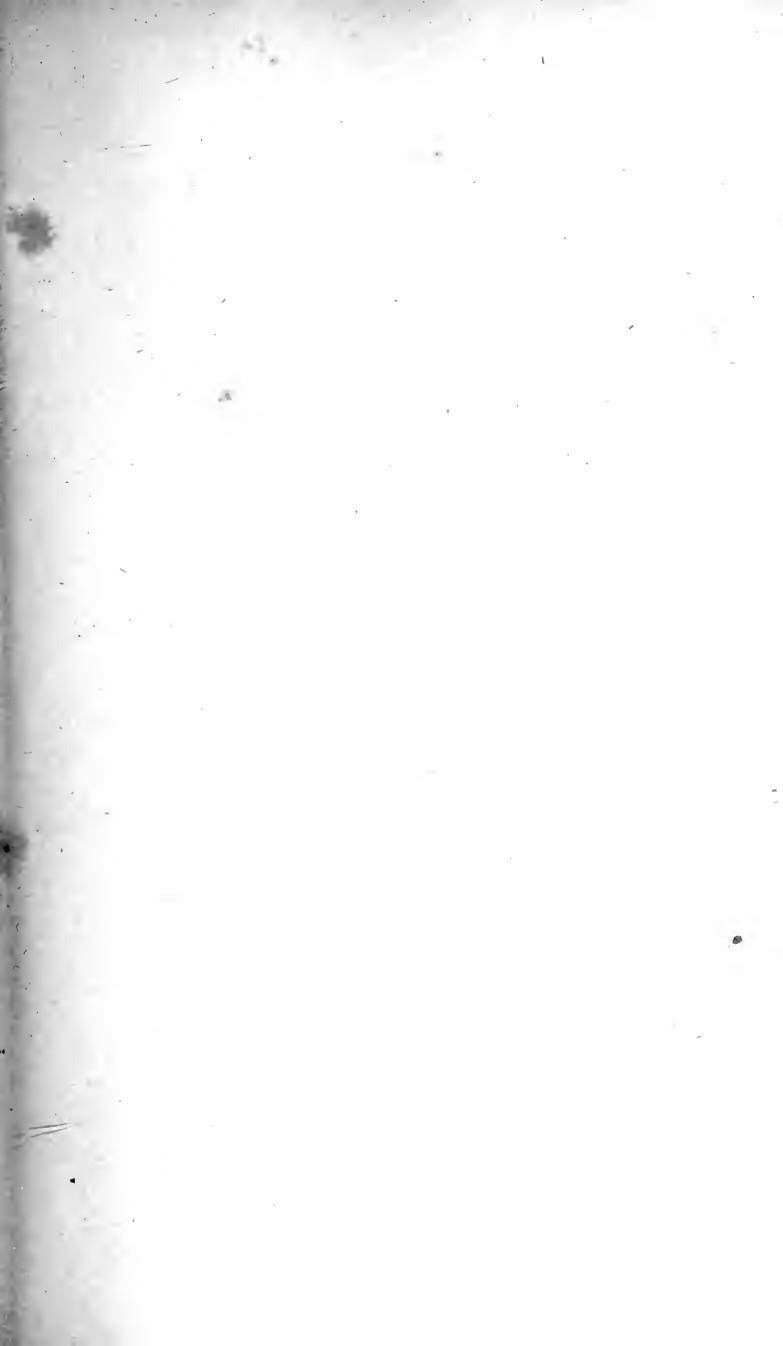


#### PLATE LIX.

Stomatopora Johnstoni, p. 430. See Plate LX.
 Stomatopora incrassata, p. 436.
 —, nat. size.
 Stomatopora fasciculata, p. 441; a colony, enlarged.
 —, nat. size.



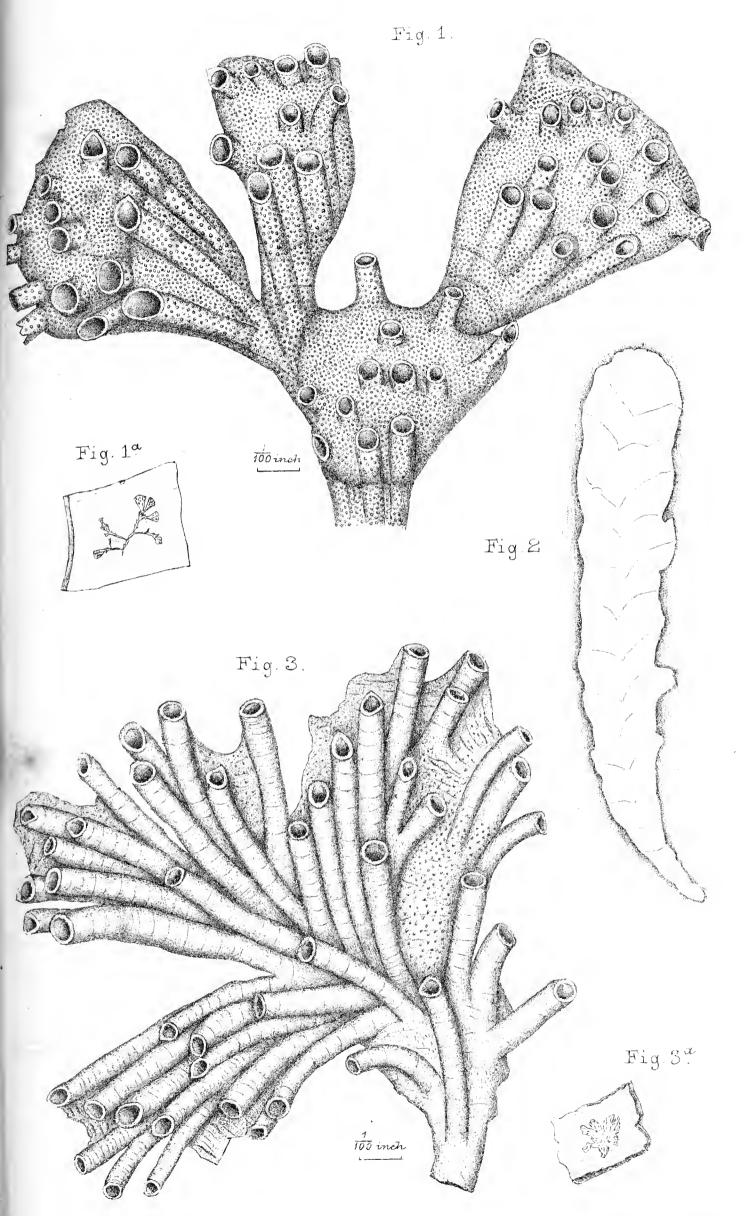




#### PLATE LX.

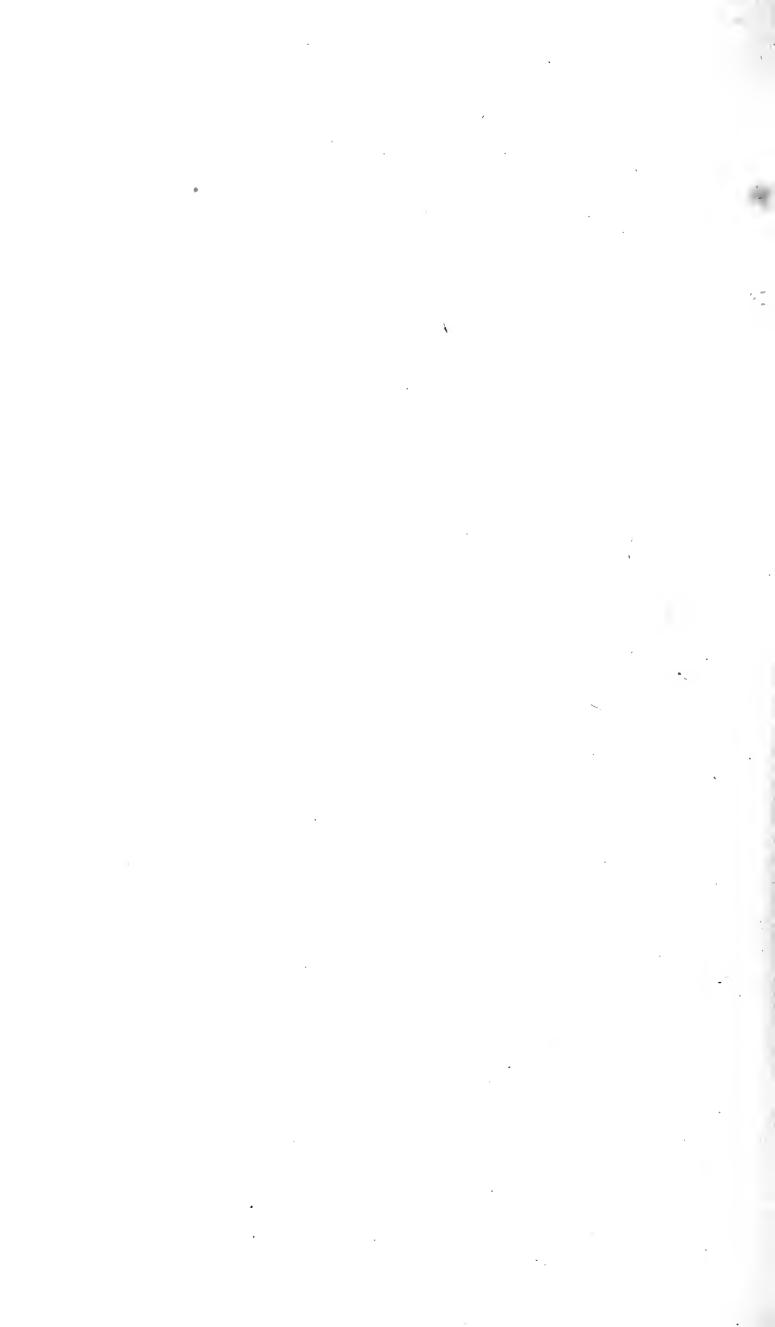
FIG.

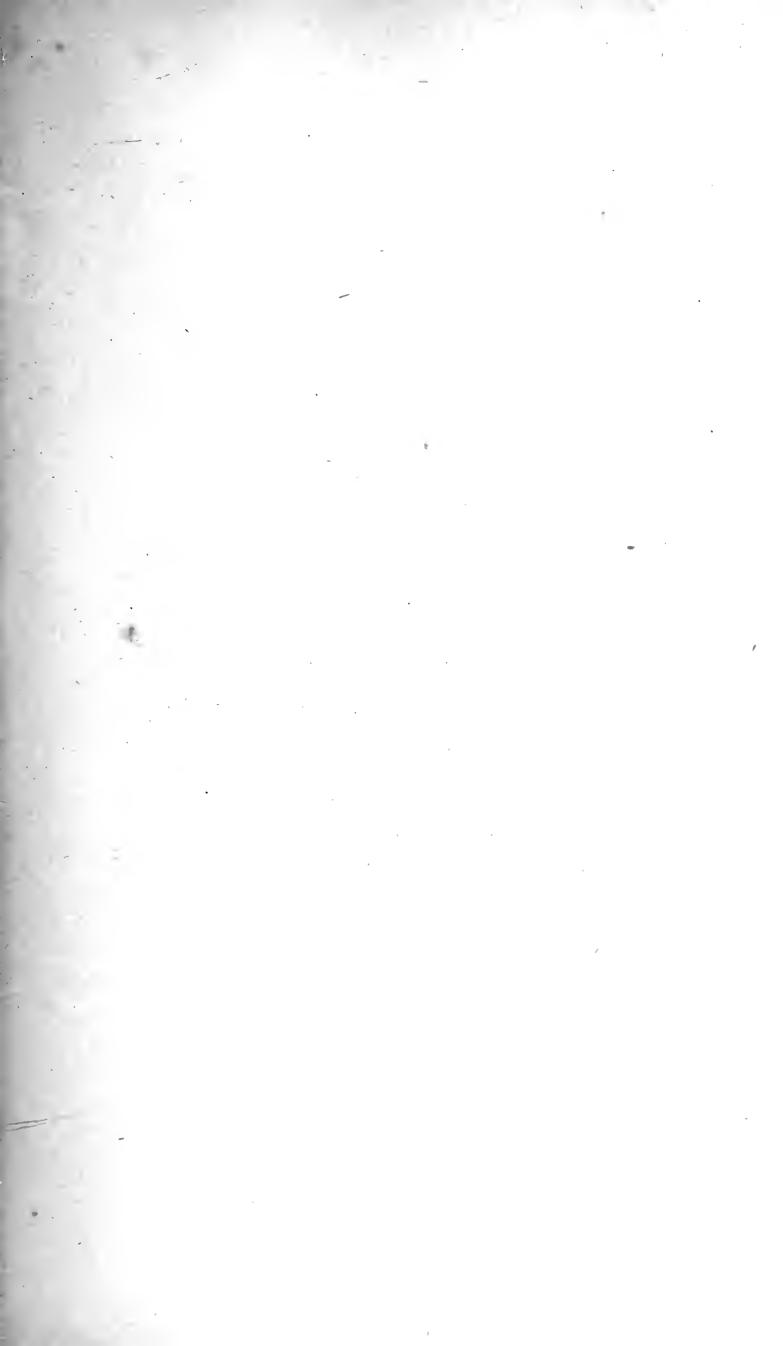
- 1. Stomatopora Johnstoni, p. 430; with occia. See Plate LIX.
- 1 a. , nat. size.
  - 2. Idmonea serpens, p. 453; young. See Plate LXI.
  - 3. Tubulipora fimbria, p. 448.
- 3 a. , nat. size.



T.H. del. A.T. Hollick lith.

West Newman & Co imp





#### PLATE LXI.

1. Stomatopora major, p. 427. See Plate LVIII.

2. Idmonea serpens, p. 453; zoœcia.

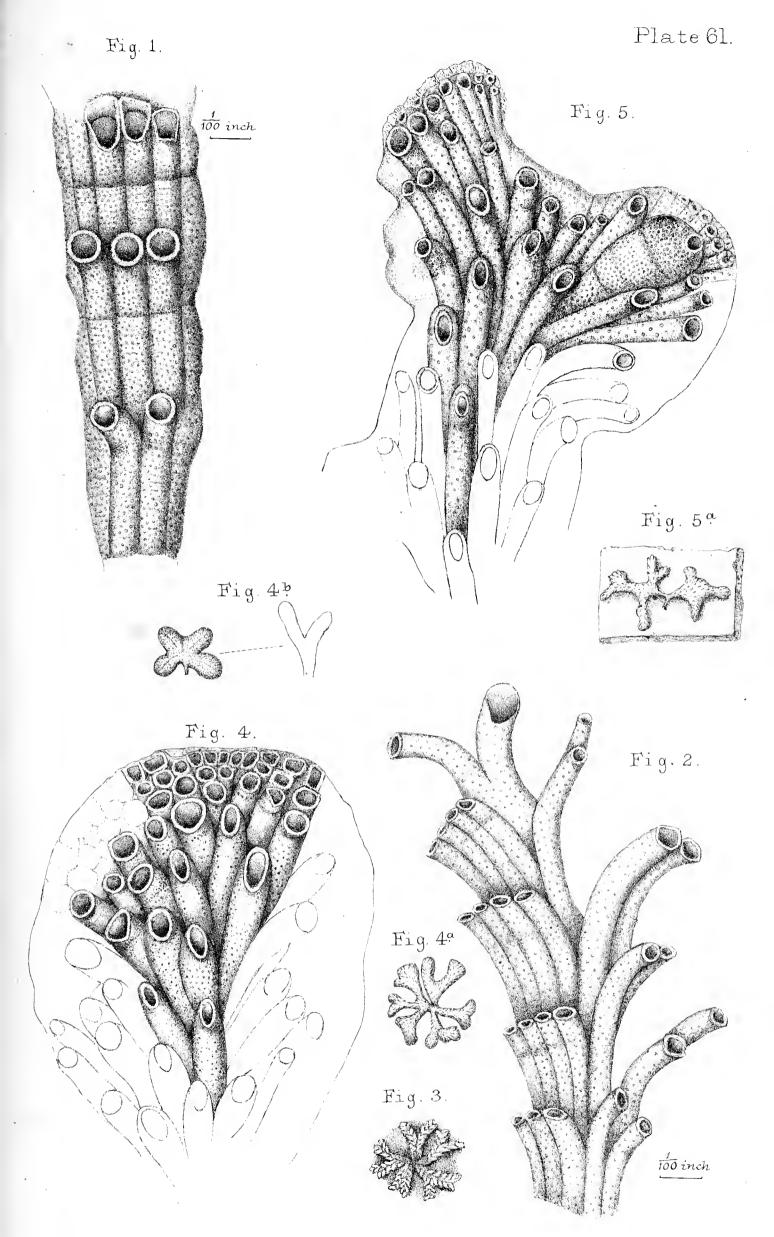
3. ————, var. radiata, nat. size.

4. Tubulipora lobulata, p. 444; a single lobe.

4 a, 4 b. ————, nat. size.

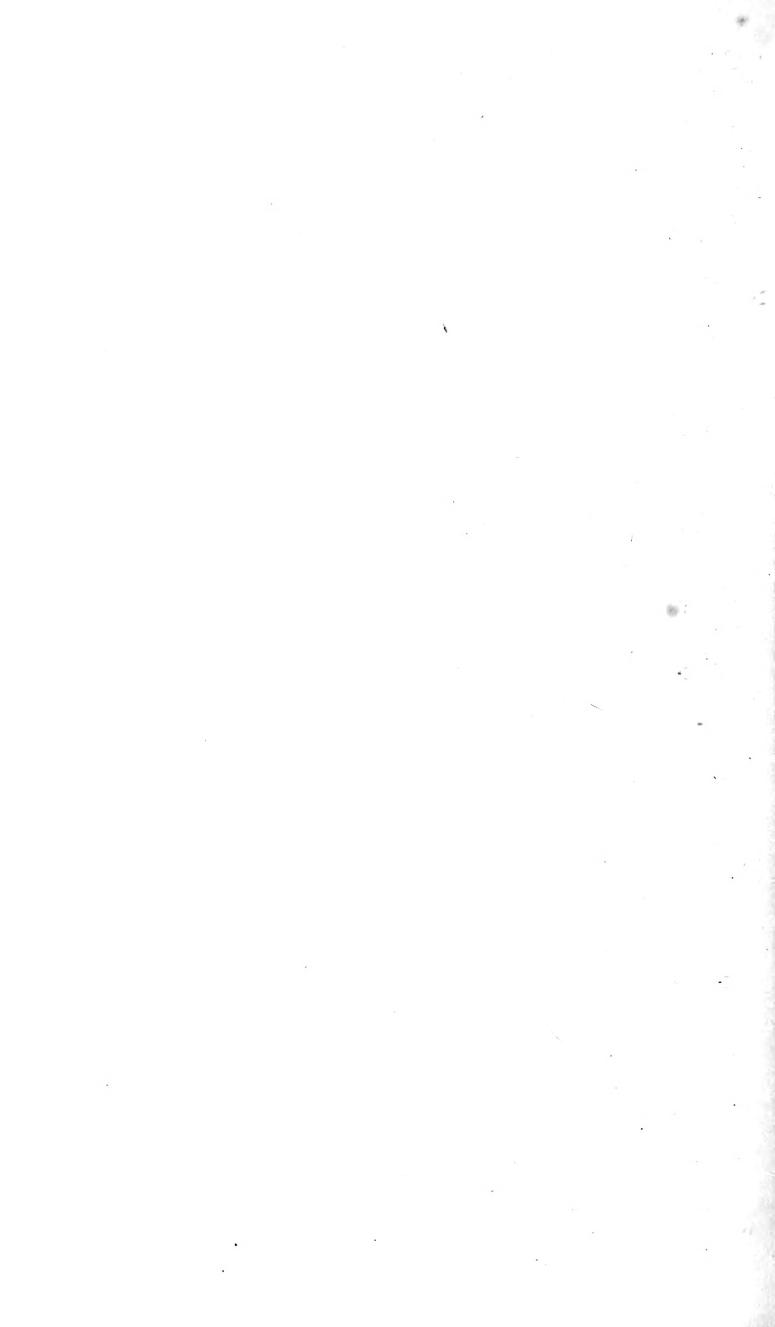
5. ————, from another specimen.

5 a. ————, nat. size.



T.H. del. A.T. Hollick lith.

West Newman & Comp.

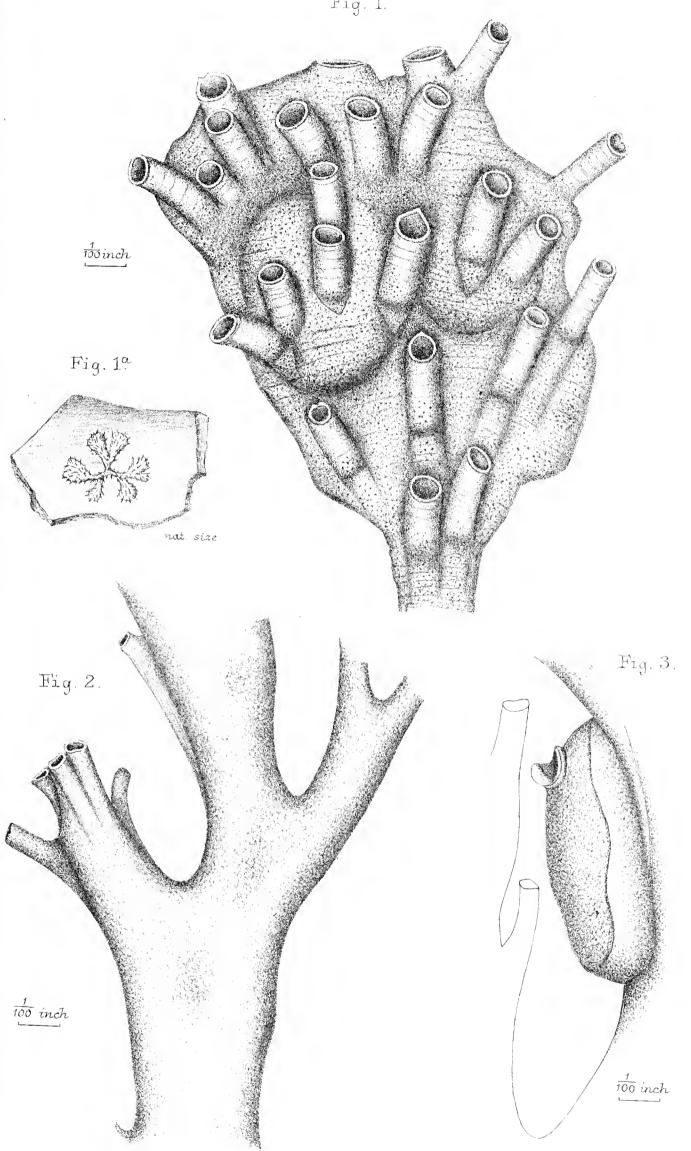


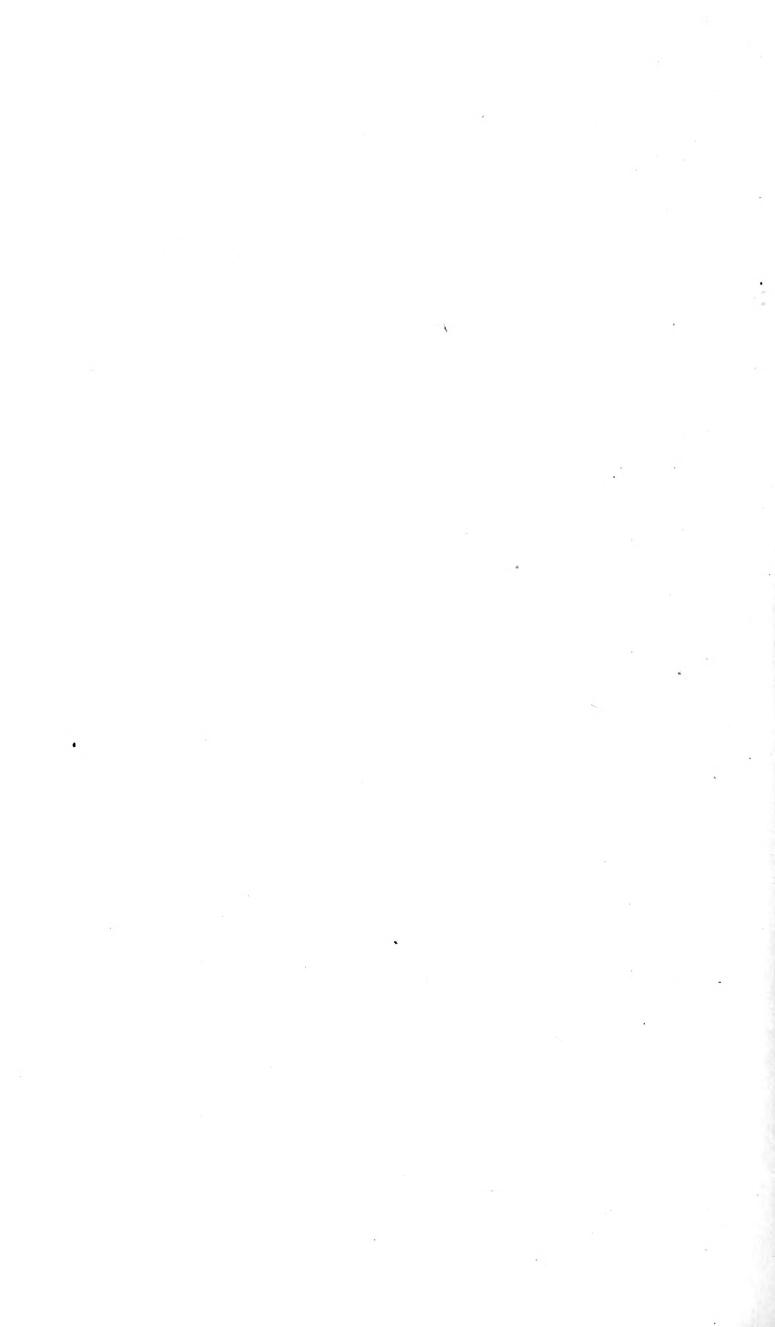


#### PLATE LXII.

Stomatopora expansa, p. 432; a lobe, enlarged.
 a. ———, nat. size.
 Hornera violacea, p. 469; dorsal surface.
 See Plate LXVII.
 ———, oœcium.









#### PLATE LXIII.

FIG. 1, 2. Stomatopora compacta, p. 435; enlarged and nat. size. 3, 4. Stomatopora diastoporides, p. 434; enlarged and nat. size. 5. Domopora truncata, p. 485; colony with a single bud. 6. — , colony viewed from above. 7. — , a composite colony. 8. — , the elevated centre \*. 9. — — , portion of the margin of the disk. 10. Domopora stellata, p. 481; a finely developed colony, with numerous capitula, considerably above nat. size. 11. -— , the branched form. 12. ----, a young bilobate colony. 13. — , var. (?=Corymbopora fungiformis,Smitt).

14. ———, celliferous lamellæ.

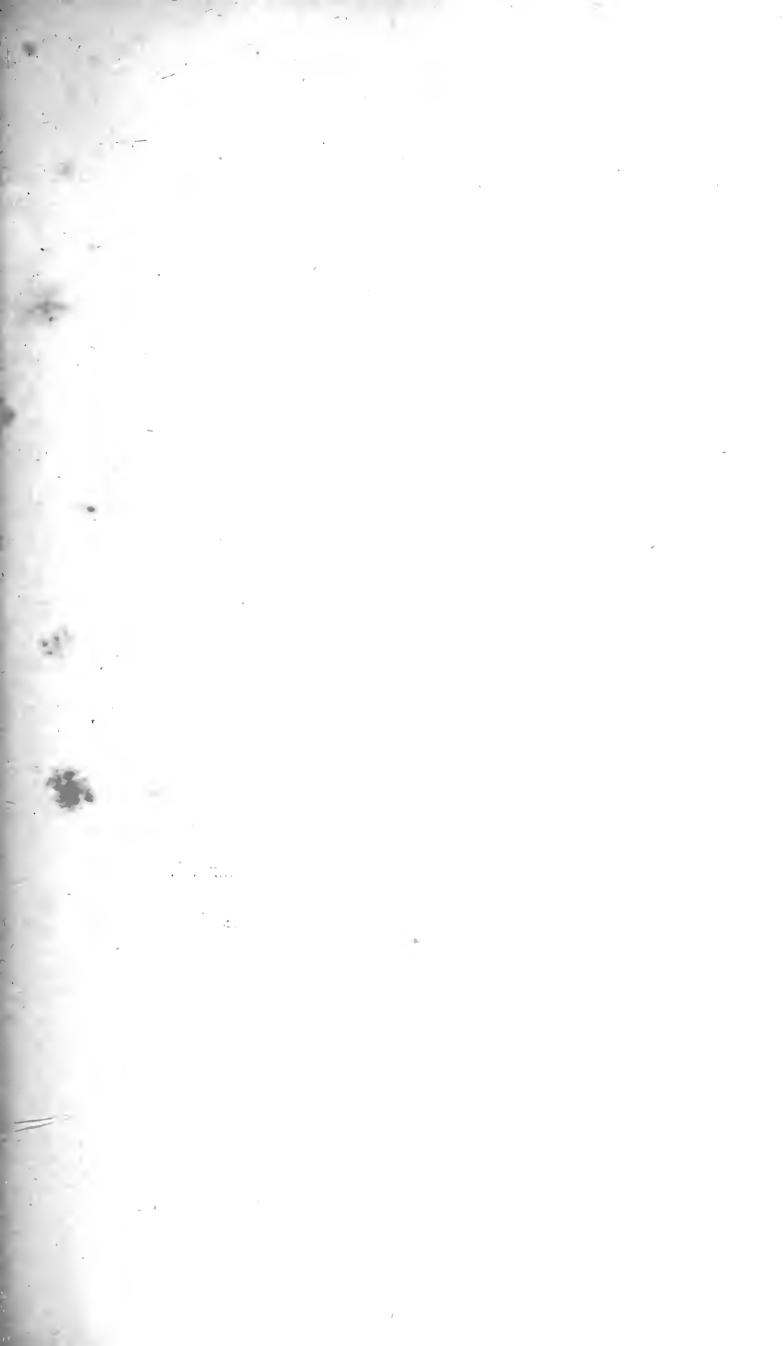
<sup>\*</sup> In this figure the radiating furrows are too strongly marked.

100 inch

West, Newmanle Co. imp.

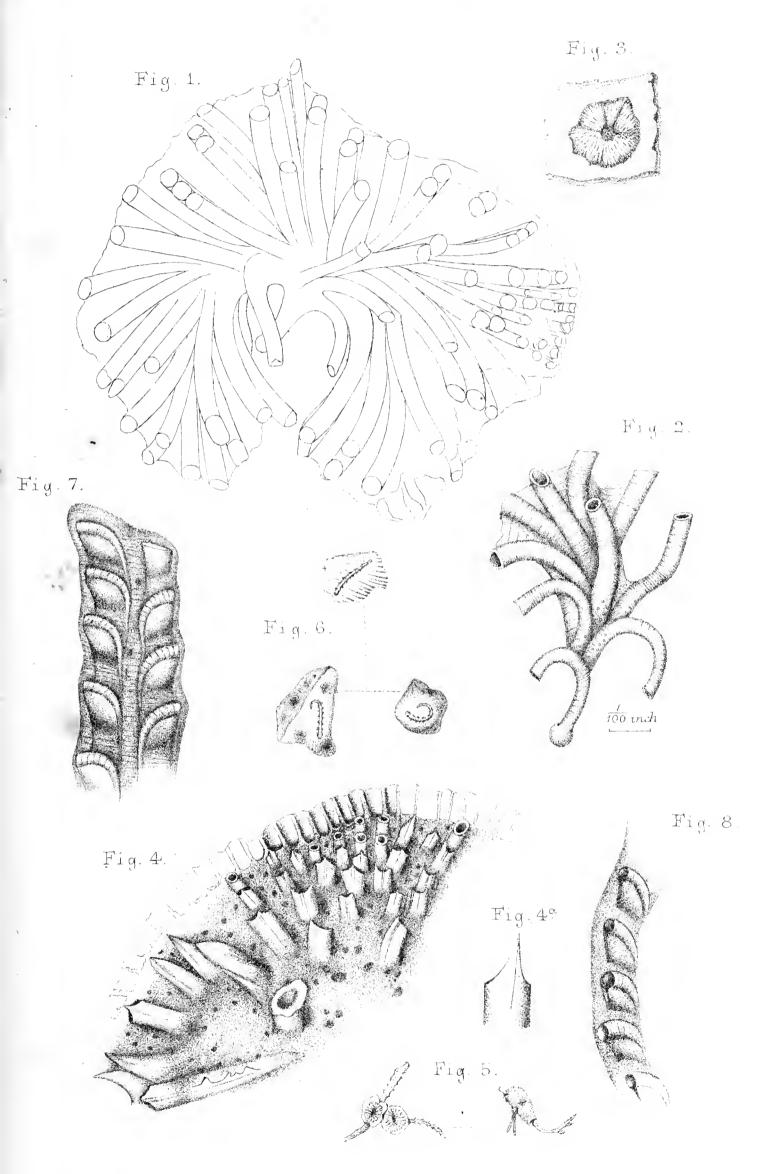
T.H. Lel. A.T. Hollick lith.

			*	
		``		
		(4)		
			i	
				10.
			1	
			C.	
				13
	(1 <del>)</del> )			25
				-
		1		
	<del>2</del> -1			
			1	
			9	
1.03				i
		3.20		
			2.5	
		•		
			, , <u>,</u> ,	



# PLATE LXIV.

rio.	
1.	Tubulipora flabellaris, p. 446; a colony in the earlier, flabellate stage.
2.	———, a very young colony, showing the primitive disk.
3.	, nat. size, a fully developed colony.
4.	LICHENOPORA VERRUCARIA, p. 478; a segment of the disk.
4a.	, single cell, showing the acuminate margin.
5.	————, nat. size.
6.	Stomatopora incurvata, p. 433; nat. size.
7.	———, portion of the zoarium, enlarged.
8.	, side view of the zoœcia, showing the orifices.



T.H. del A.T. Hollick lith.

West, Newman & Counp

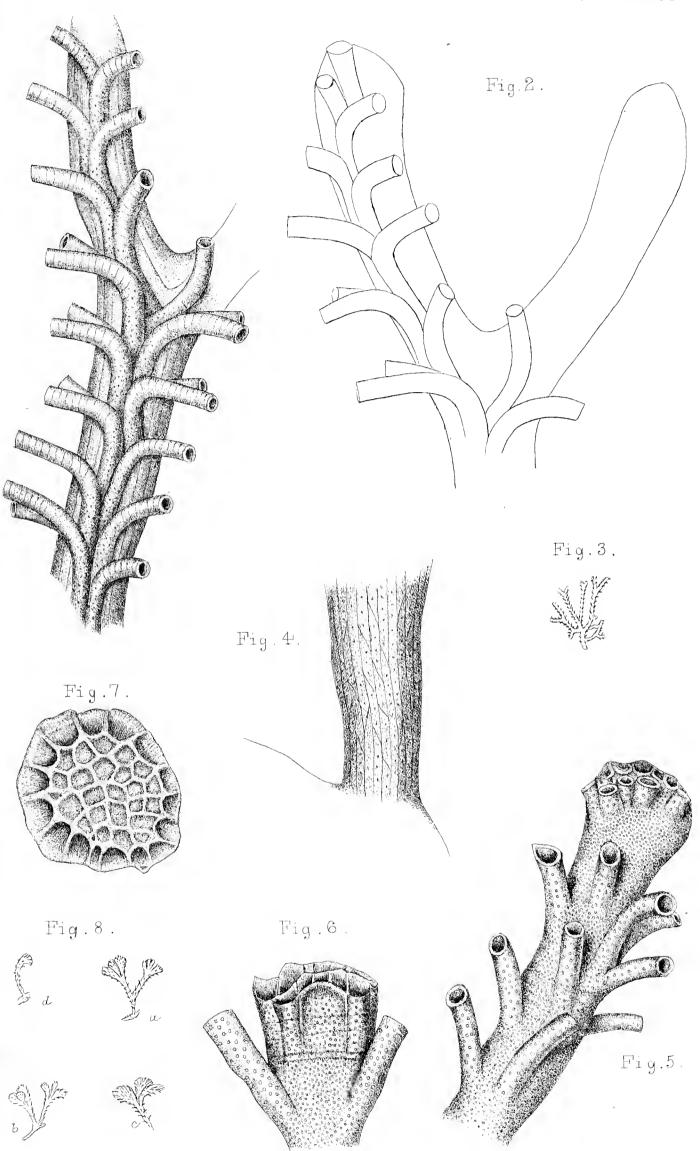




# PLATE LXV.

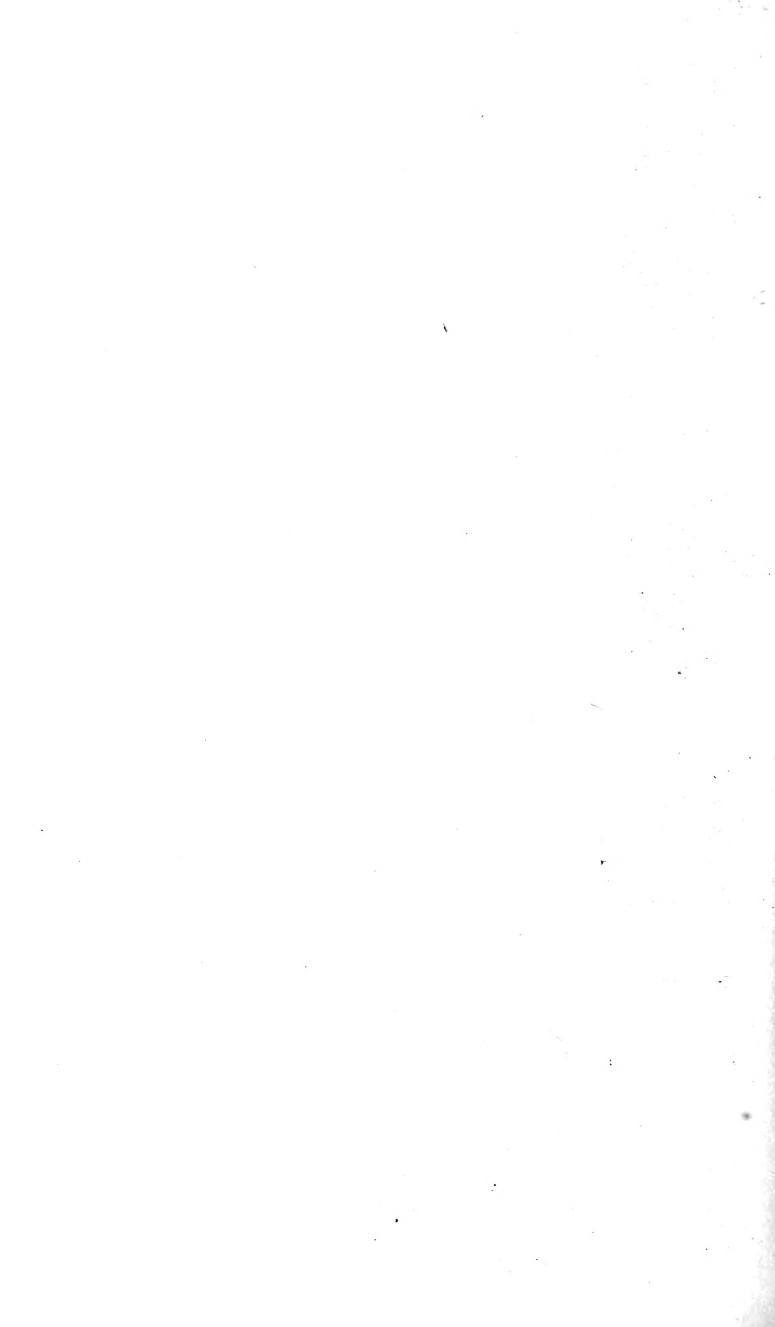
FIG.	
1, 2.	IDMONEA ATLANTICA, p. 451; portion of a branch,
	front surface.
3.	, nat. size.
4.	, dorsal surface.
5, 6.	Entalophora clavata, p. 456; terminal portion of a branch.
7.	———, cellular apex of the branch.
8.	——————————————————————————————————————

Plate 65.



T.H.del. A.T. Hollick lith.

W. West Kello, inco.





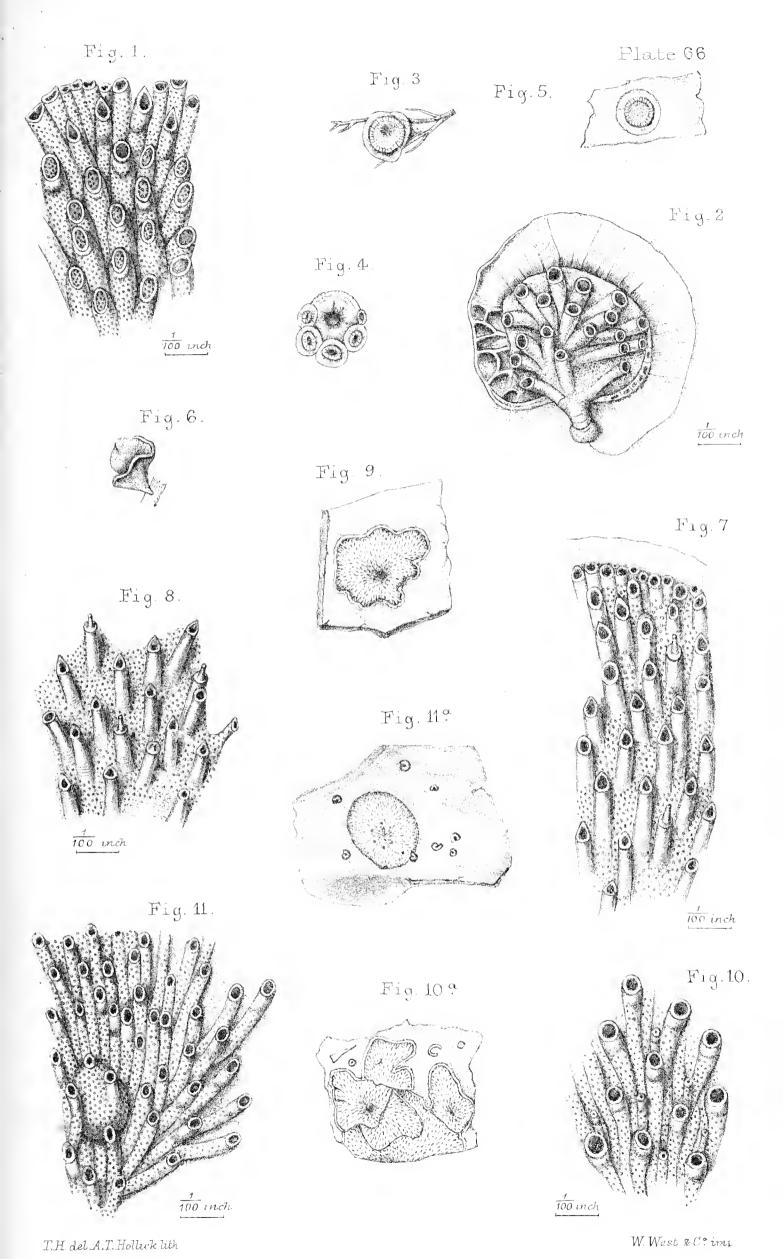
# PLATE LXVI.

	,
FIG. 1.	Diastopora patina, p. 458; zoœcia.
2.	———, a young colony.
3.	—————, ordinary caliculate form.
4.	, proliferous disk.
5.	————, disk with the lamina wholly adnate.
6.	, stipitate form.
7, 8.	DIASTOPORA SARNIENSIS, p. 463; portions of the crust, showing several of the operculate cells, with tubular orifice.
9.	—————, nat. size.
10 a.	Diastopora obelia, p. 462; portion of the crust, enlarged, and colony, of the natural size.

11, 11 a. Diastopora suborbicularis, p. 464; ditto,

ditto.

10,



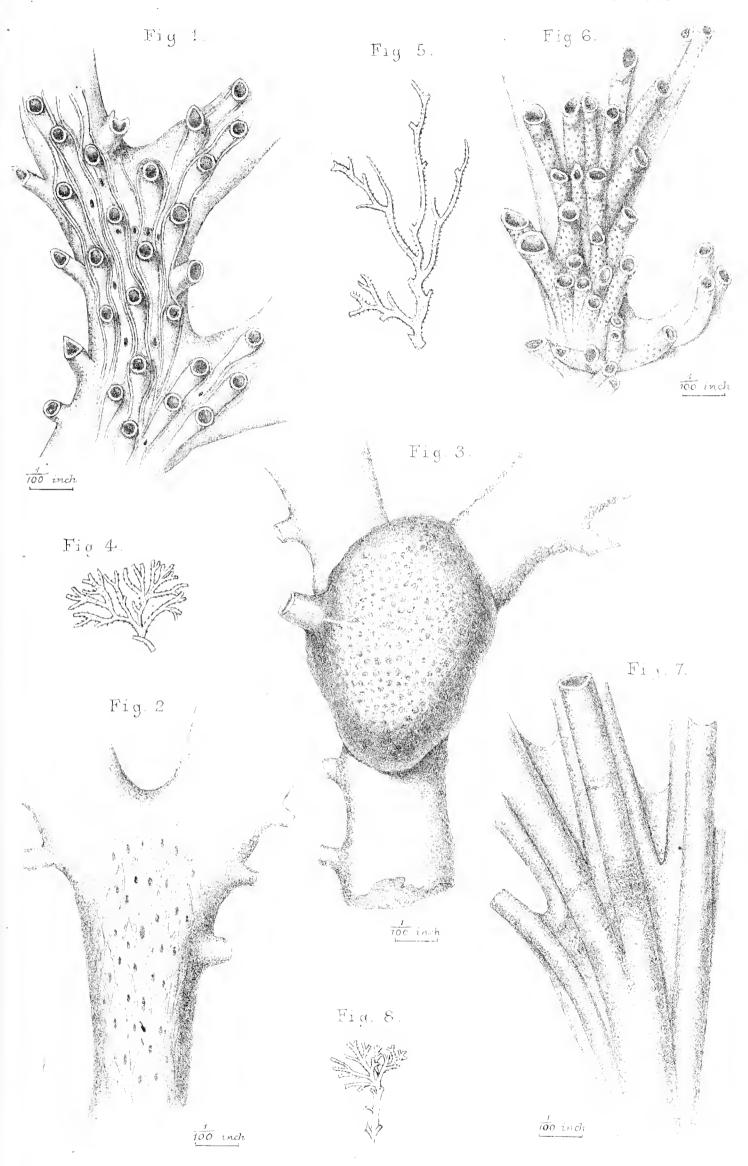
London: John Van Voorst, MDCCCLXXIX.

. 



#### PLATE LXVII.

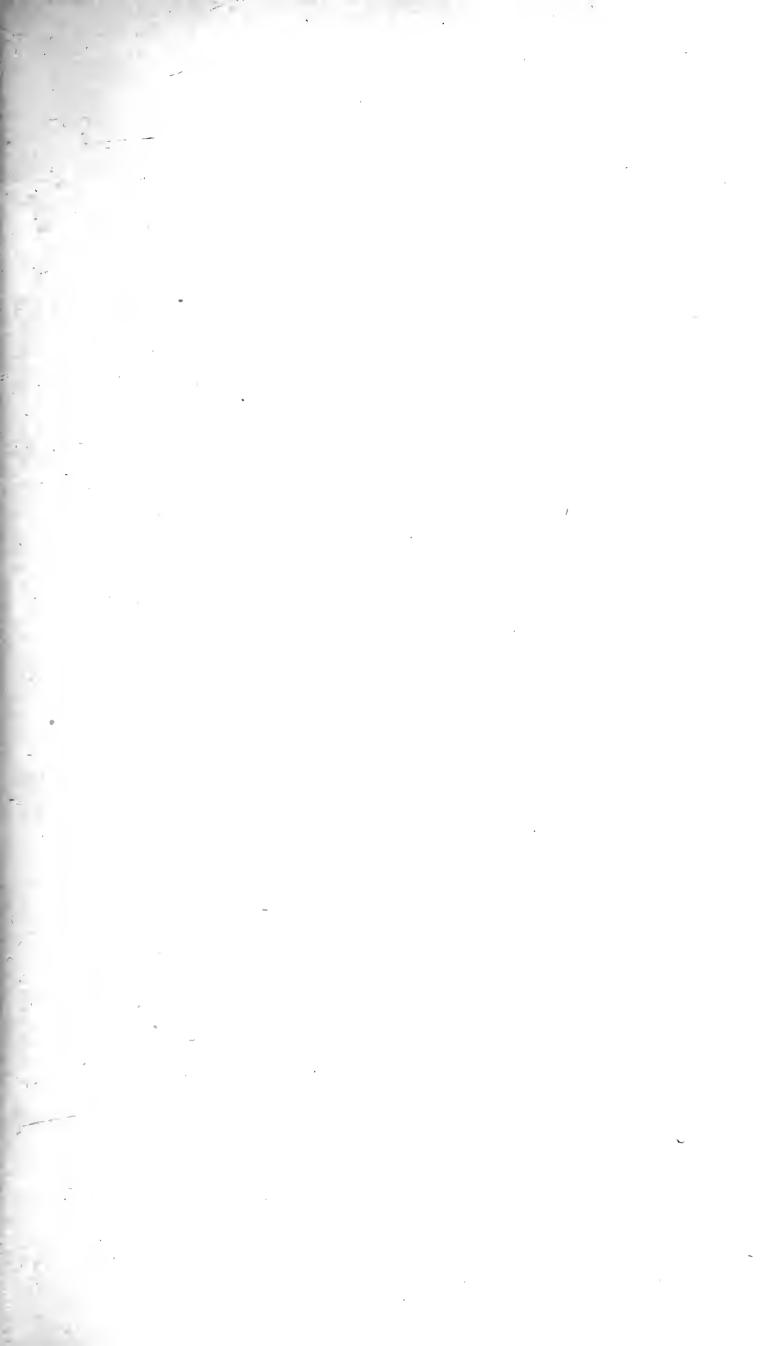
HORNERA LICHENOIDES, p. 468; portion of branch, enlarged.
 —, dorsal surface.
 —, oœcium.
 —, nat. size.
 HORNERA VIOLACEA, p. 469; portion of branch, enlarged. See Plate LXII.
 —, dorsal surface.
 —, nat. size.



IH del A.T. Hollick lish.

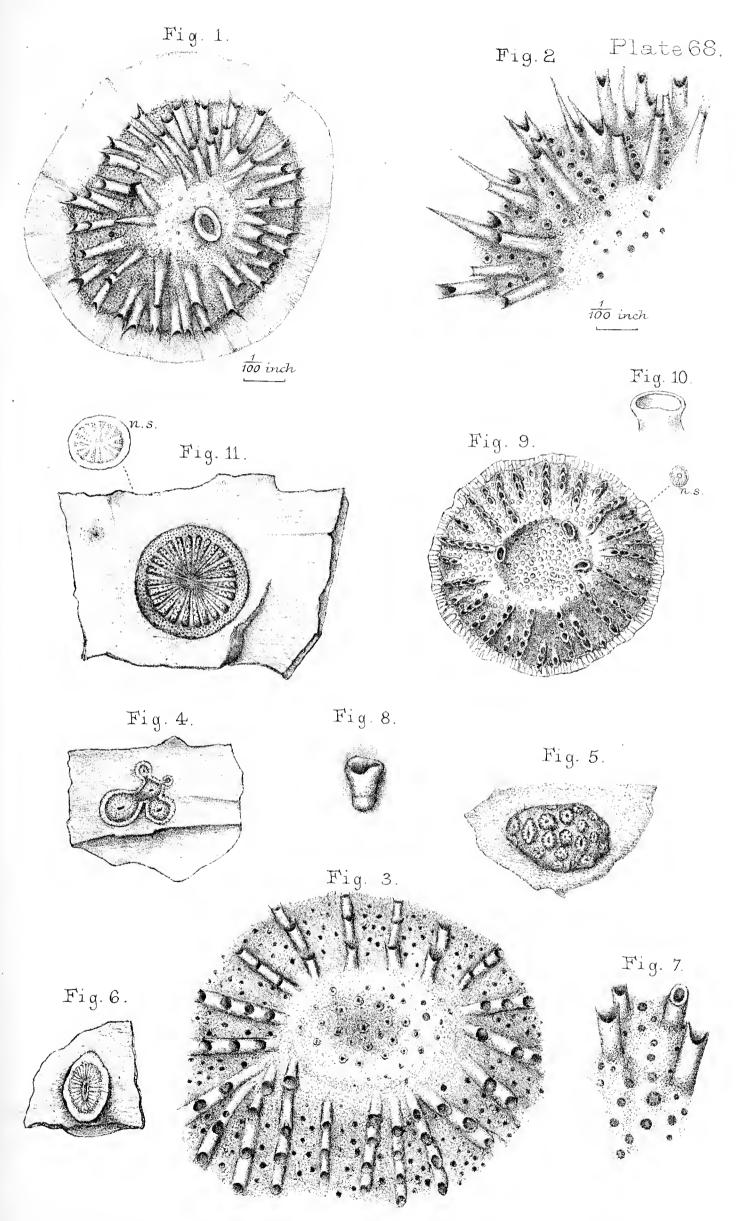
W. West & Comm

				-			
				,			
						•	
						>	1.7
				•			
·							
•						,	
							•
							•
					*		
		•					
							. 4
	٠						
	•						
				-			
			•		-		. 1
							•



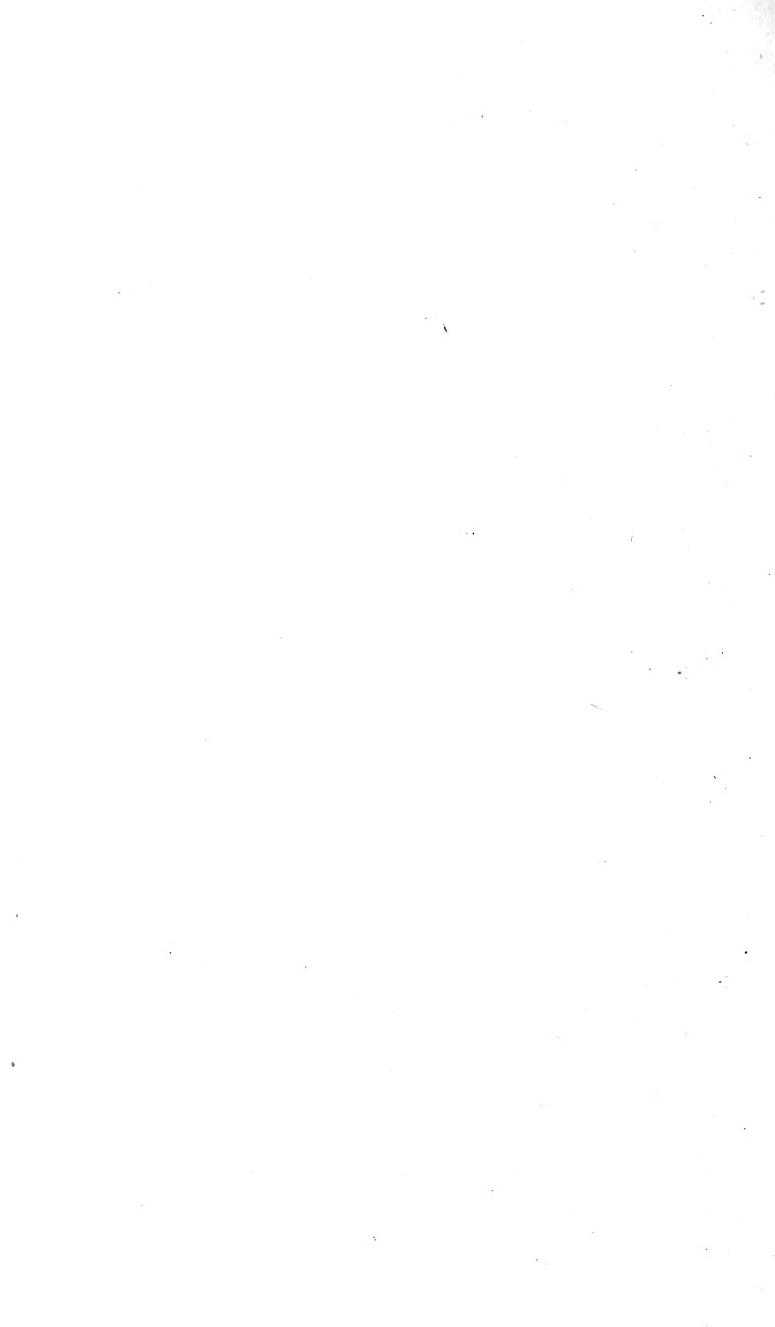
### PLATE LXVIII.

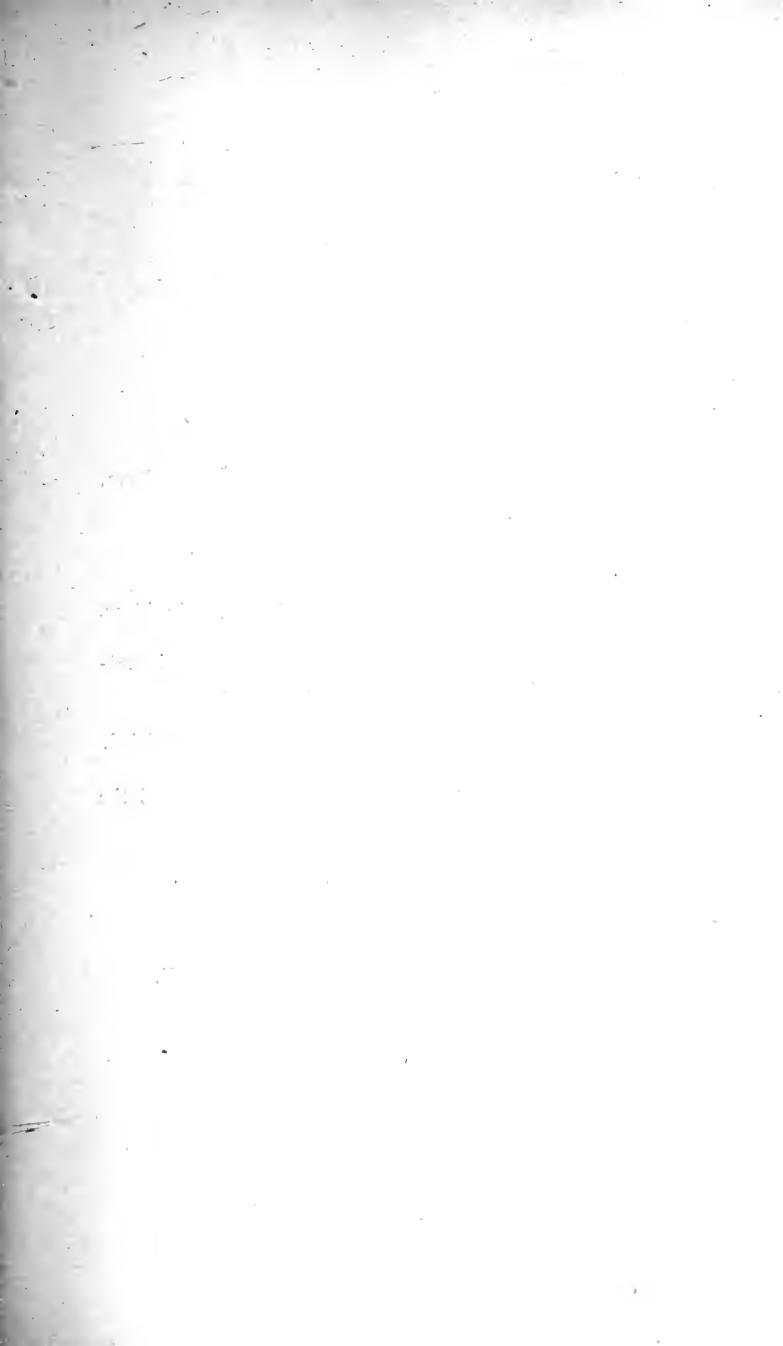
FIG.	
	LICHENOPORA HISPIDA, p. 473; a young and simple colony, with one of the oceial orifices in the centre.
2.	, portion of disk.
3.	———, one of the mamillæ of the composite form.
4.	showing the mode of gemmation: nat. size.
5.	———, adult composite colony, var. $\beta$ , nat. size.
6.	——————————————————————————————————————
7.	, portion of disk, showing the stellate pores.
8.	, origin of eolony.
9.	LICHENOPORA RADIATA, p. 476; enlarged and nat. size. After Tuffen West.
10.	, one of the occial orifices.
11.	LICHENOPORA REGULARIS, p. 479; enlarged (about three times) and nat. size.



T.H & T. West del. A.T. Hollick lith.

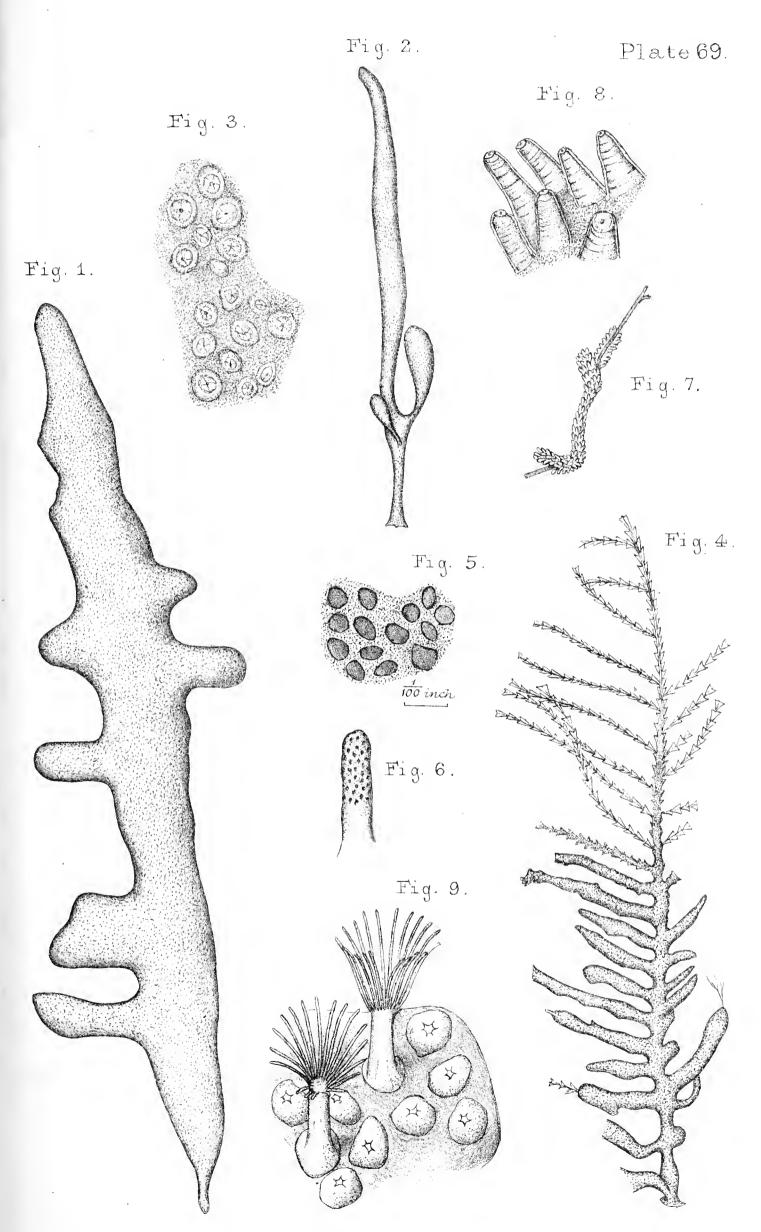
West Newman & Coimp.





# PLATE LXIX.

FIG.	
1.	ALCYONIDIUM GELATINOSUM, p. 491; lobate form nat. size.
2.	, young and simple colony, nat. size.
3.	, portion of surface, showing zoœcial orifices
4.	ALCYONIDIUM PARASITICUM, p. 502; specimen investing a Sertularian.
5.	——, portion of crust as it appears when dried.
6.	—————, a lobe, showing the arrangement of the cells.
7.	Alcyonidium mamillatum, p. 495; nat. size.
8.	—— , zoœcia, enlarged.
9.	ALCYONIDIUM POLYOUM, p. 501. After Hassall.



T.H. dev. A.T. Hollick: lith.

W.West & C. inyo.

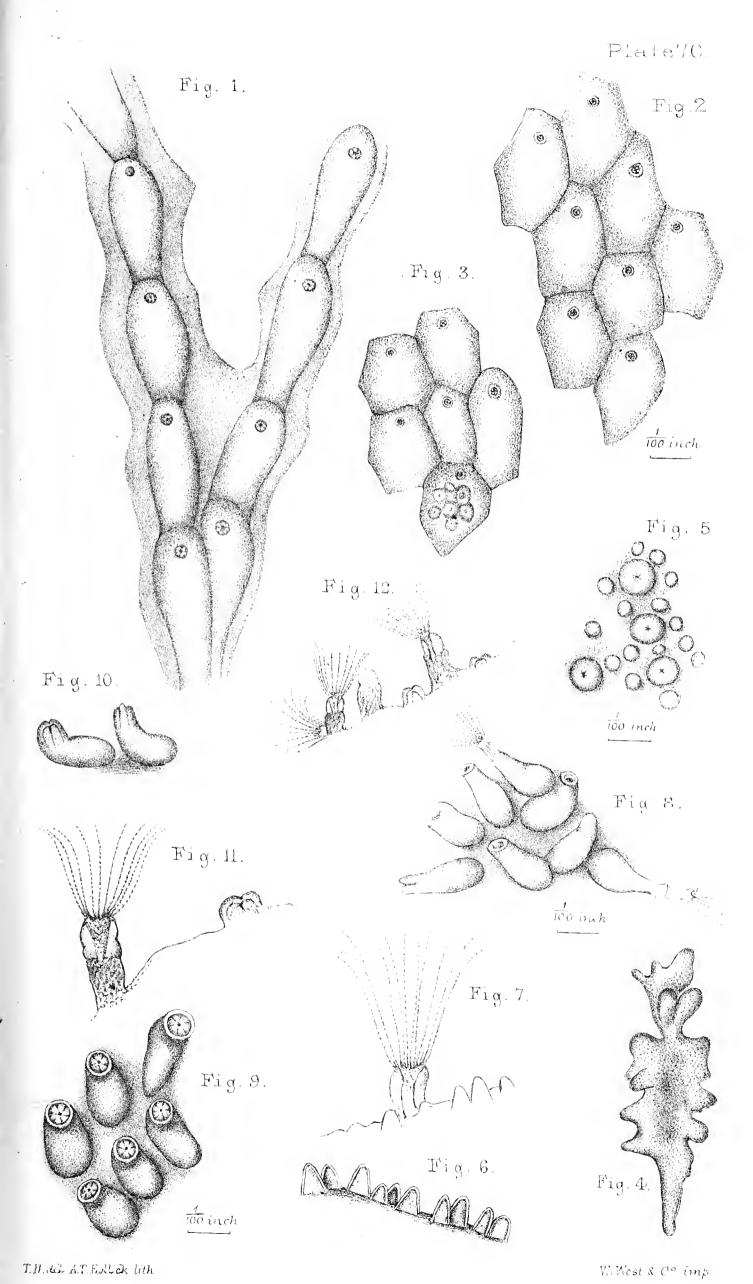




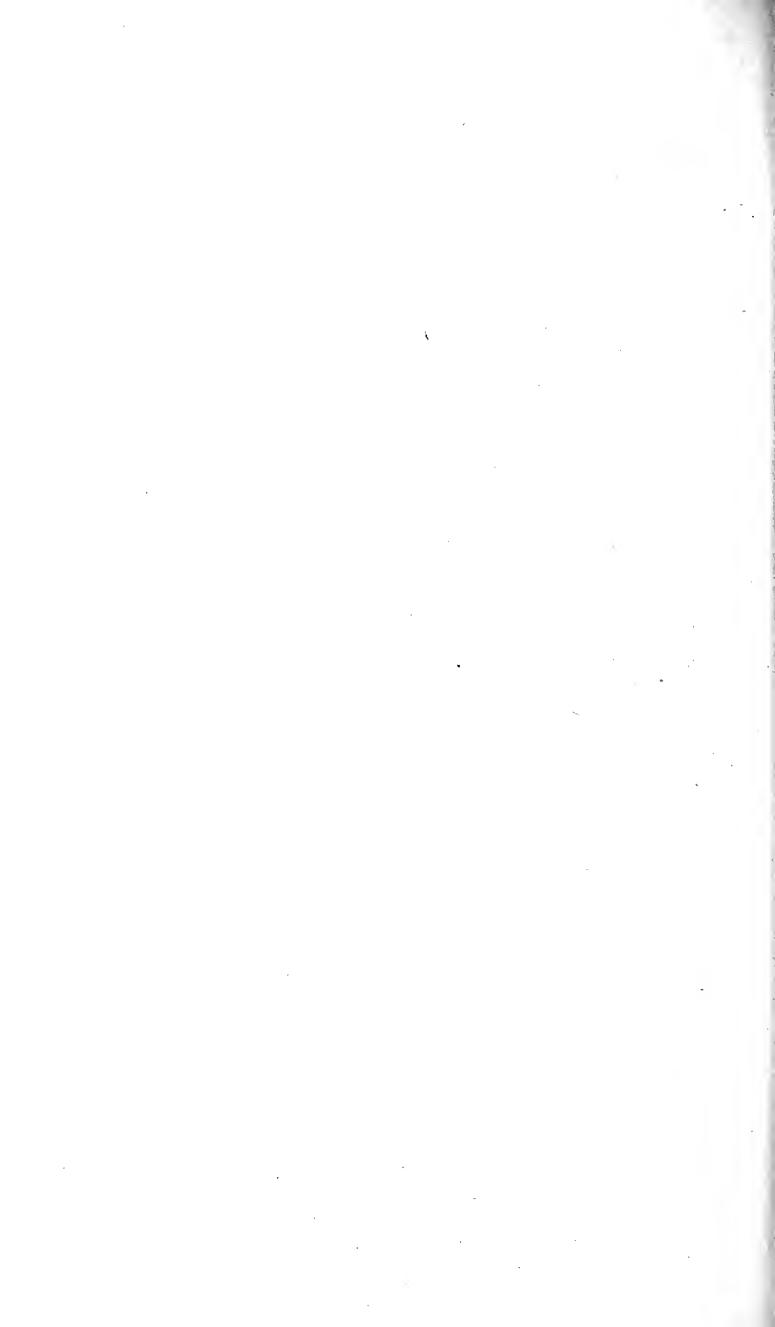
#### PLATE LXX.

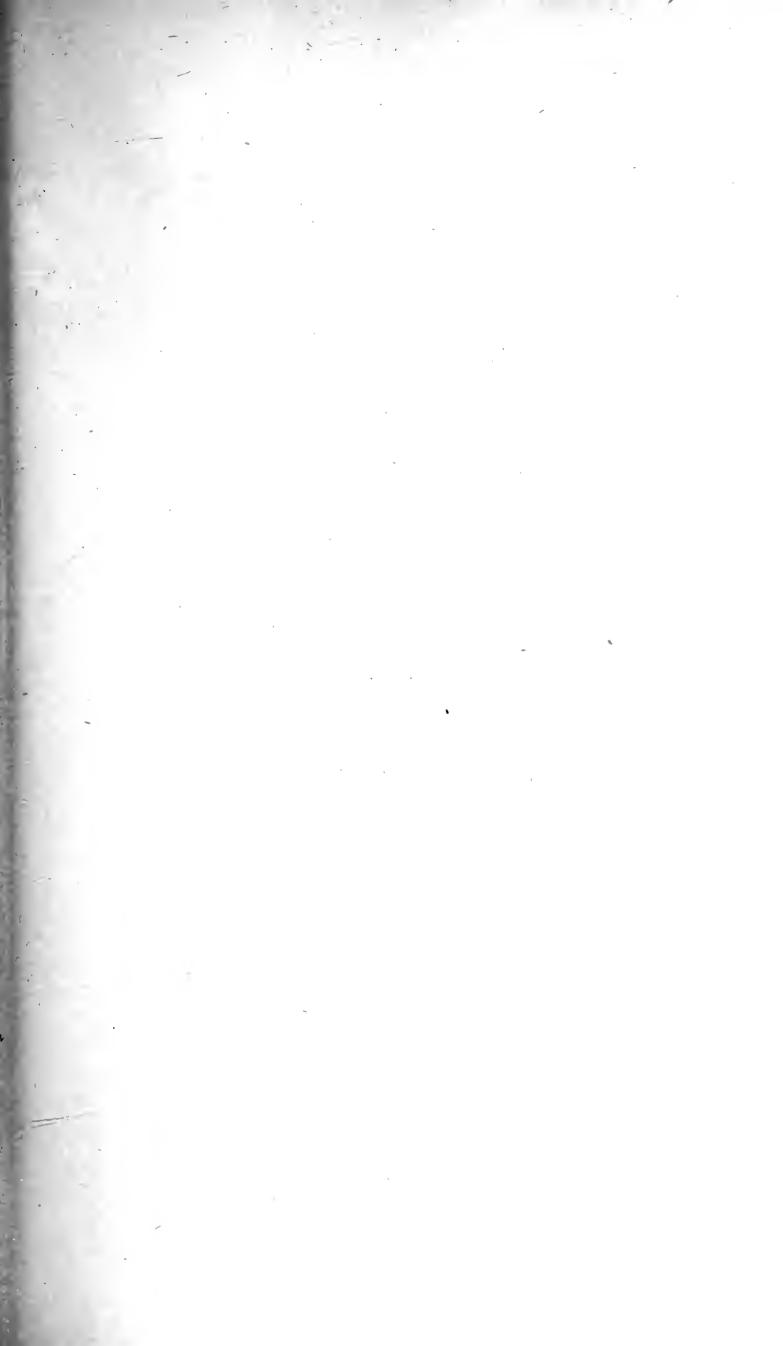
FIG.

- 1. Algonidium disjunctum, p. 497; portion of the crust, enlarged.
- 2, 3. Algyonidium mytili, p. 498; zoœcia.
  - 4. Alcyonidium hirsutum, p. 493; young colony, nat. size.
  - 5. ———, portion of surface, viewed from above, showing the zoocial orifices surrounded by the papillæ.
  - 6. , papillæ, viewed in profile.
  - 7. ———, the polypide.
- 8, 9. Algyonidium albidum, p. 500; portions of crust.
  - 10. , two zoœcia detached.
- 11, 12. , polypides.



London: John Van Voorst, MDCCCLXXIX.

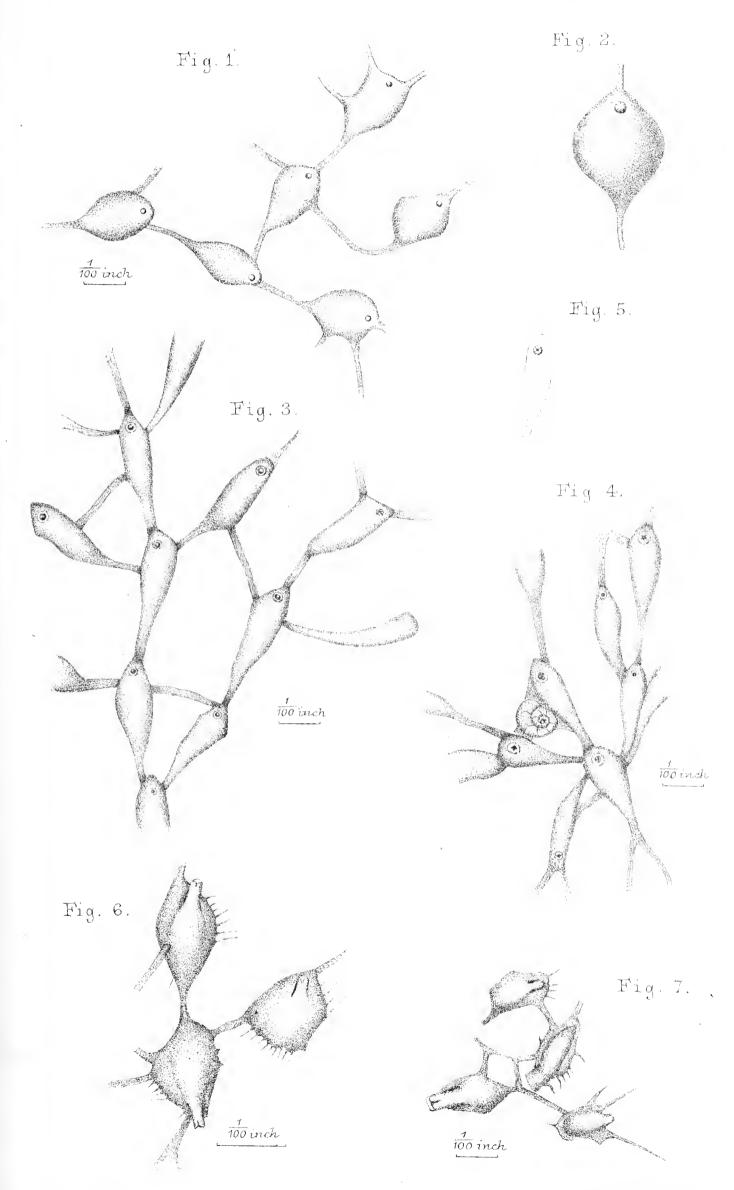


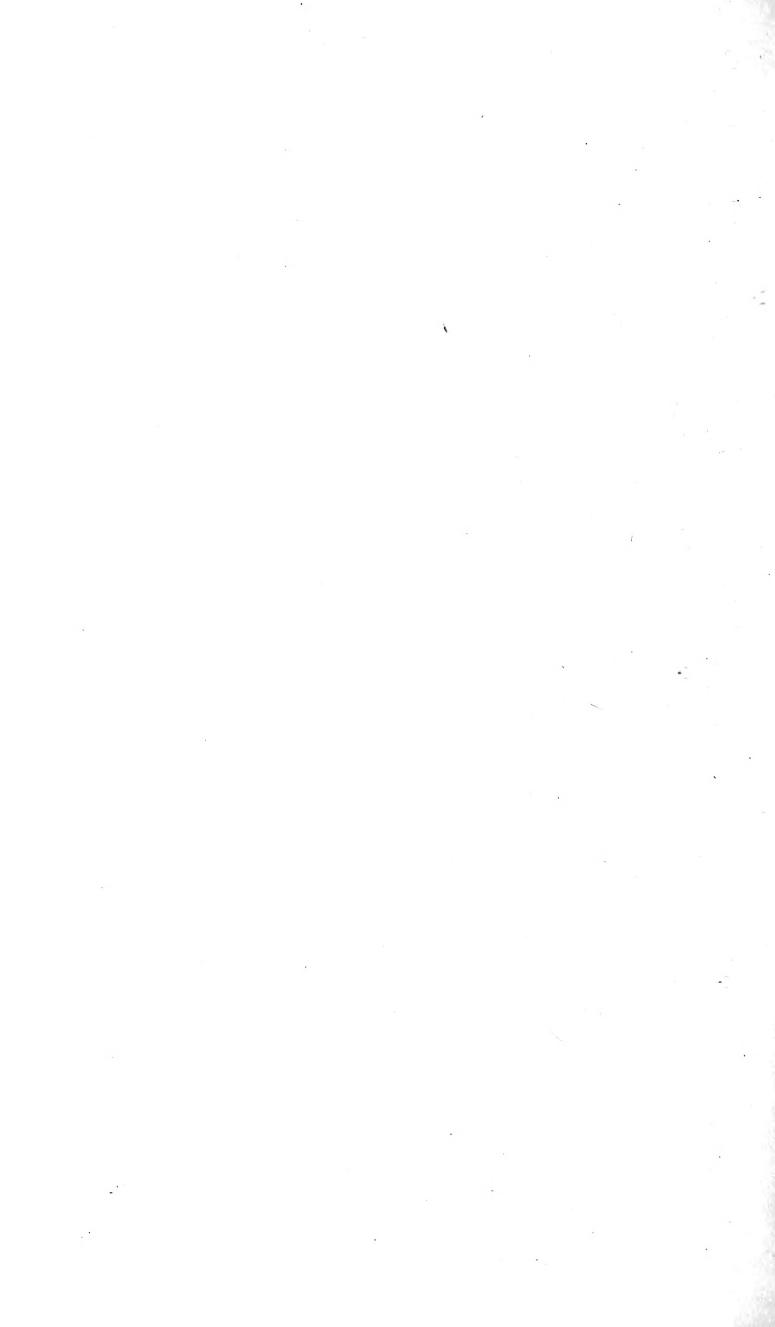


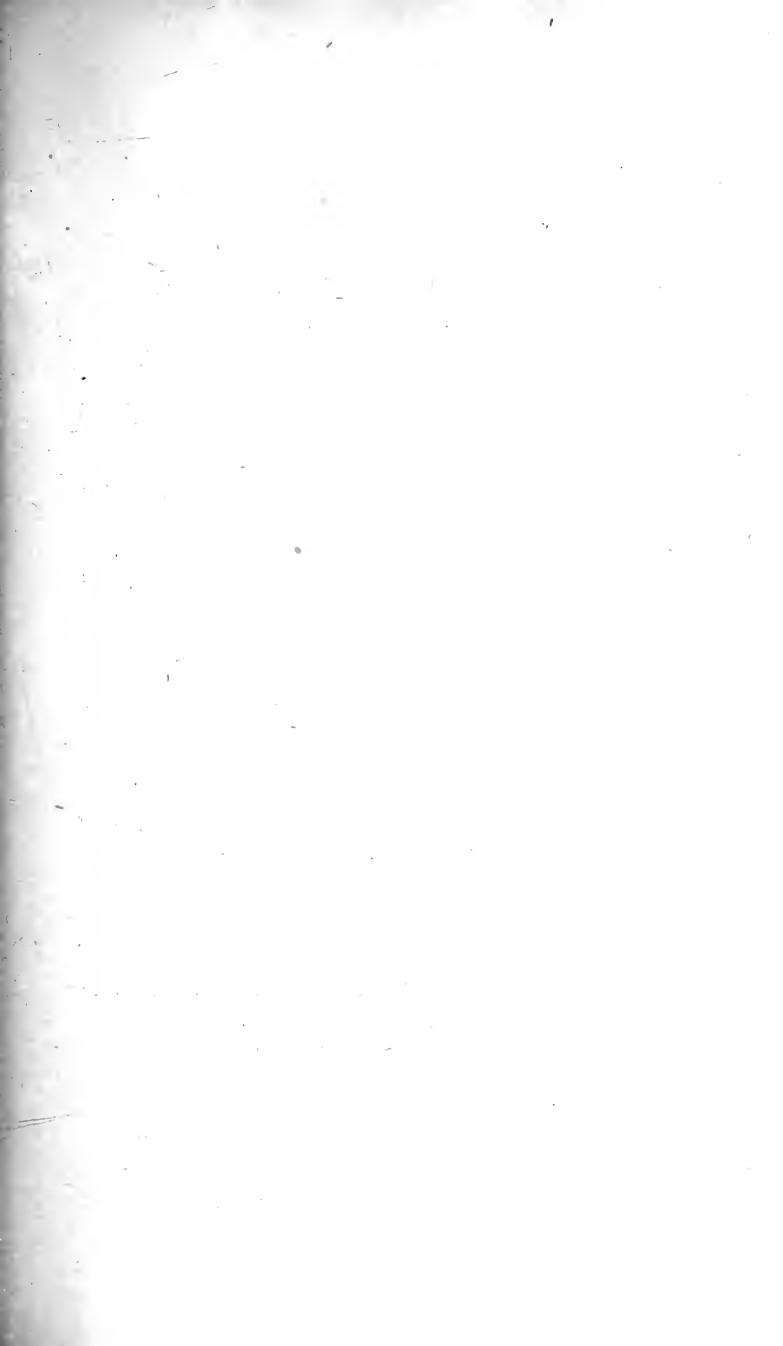
#### PLATE LXXI.

FIG.

- 1, 2. Arachnidium hippothooides, p. 509.
- 3, 4. Arachnidium clavatum, p. 510.
  - 5. , a single zoœcium.
- 6, 7. Arachnidium fibrosum, p. 511.

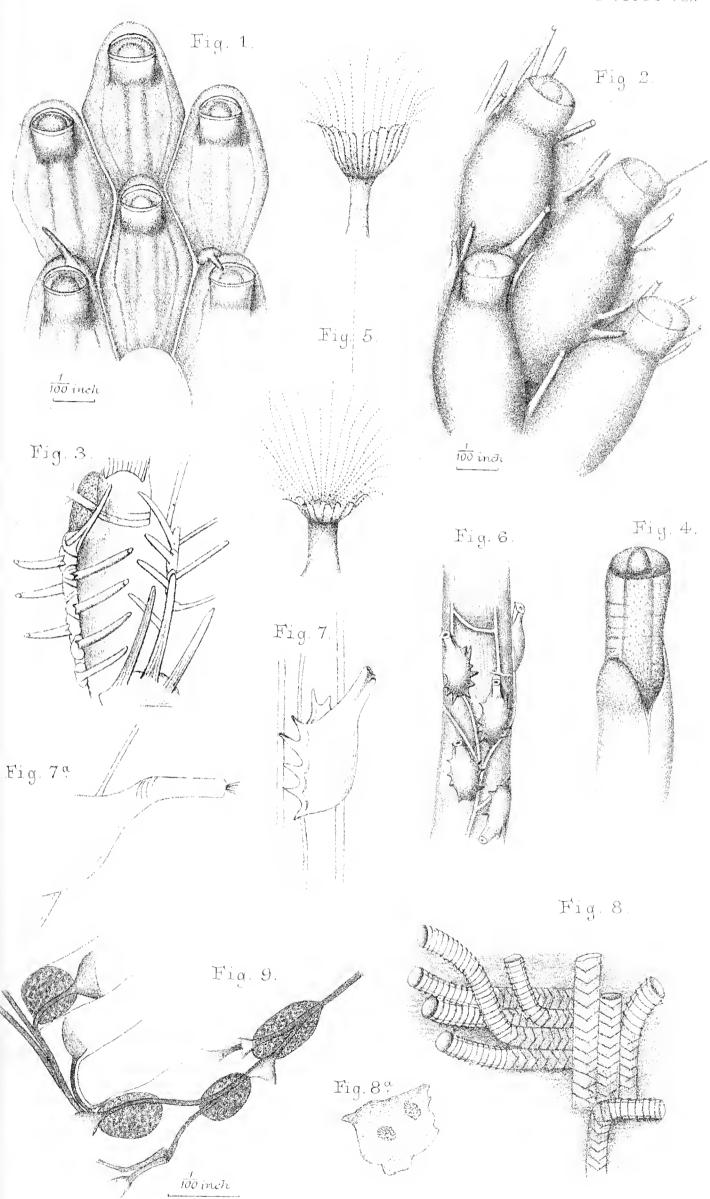






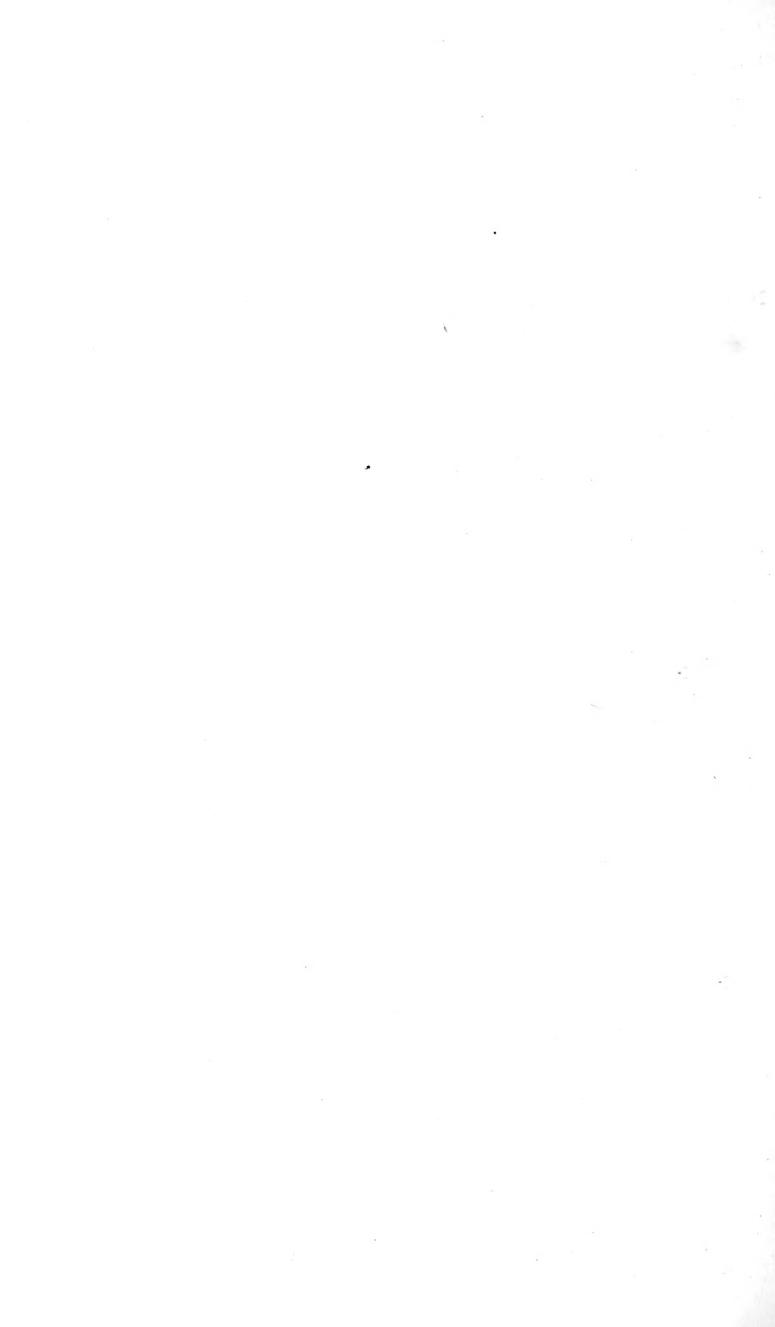
### PLATE LXXII.

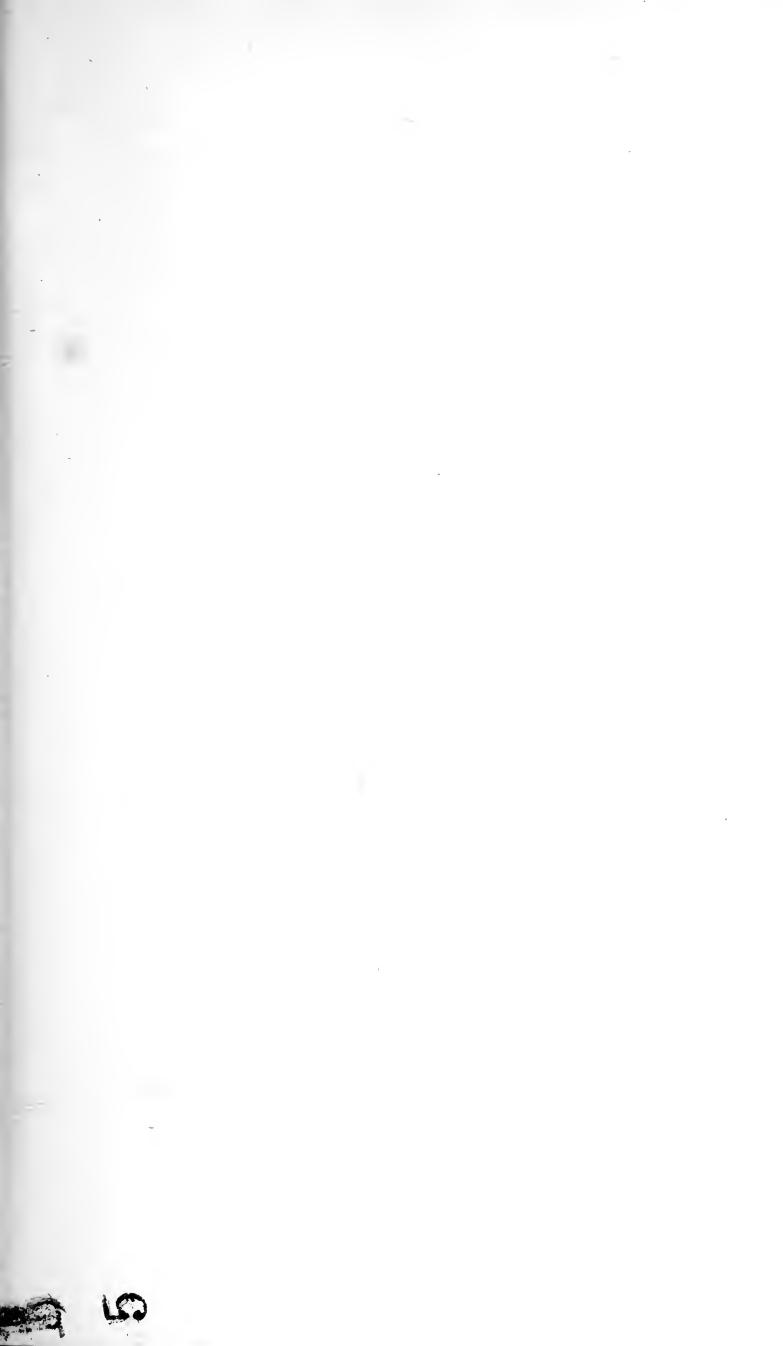
FIG.	
	Flustrella hispida, p. 506; young zoœcia.
2.	around the orifice only.
3.	—————, a zoœcium surrounded by spines. After Smitt.
4.	, the bilabiate orifice with the polypide issuing.
5.	——————————————————————————————————————
6.	Buskia nitens, p. 532; colony creeping over a stem.
7.	, a single cell.
7 a.	operculum of setæ.
8.	RHABDOPLEURA COMPACTA, p. 581.
8 a.	——————————————————————————————————————
9.	, portion of the "axial cord," with statoblasts (?), seen from below.



· T.H. del A.T. Hollick lith

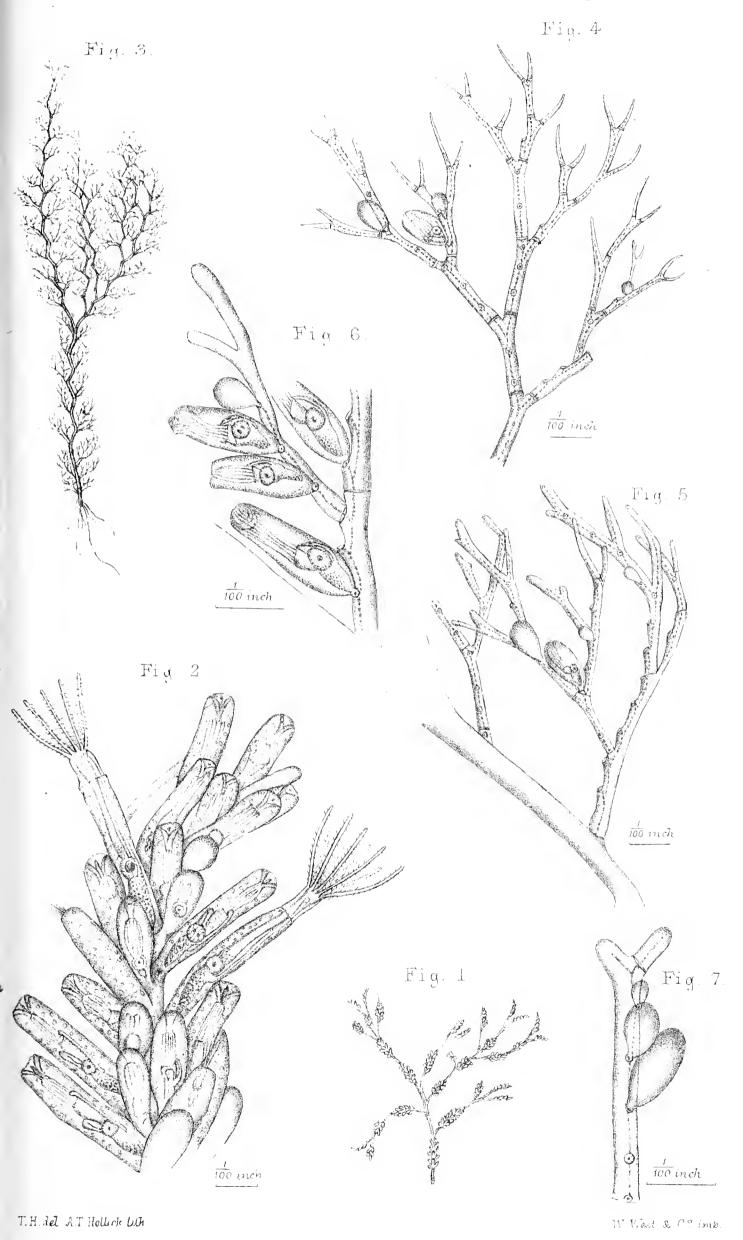
West Howmans . " ....



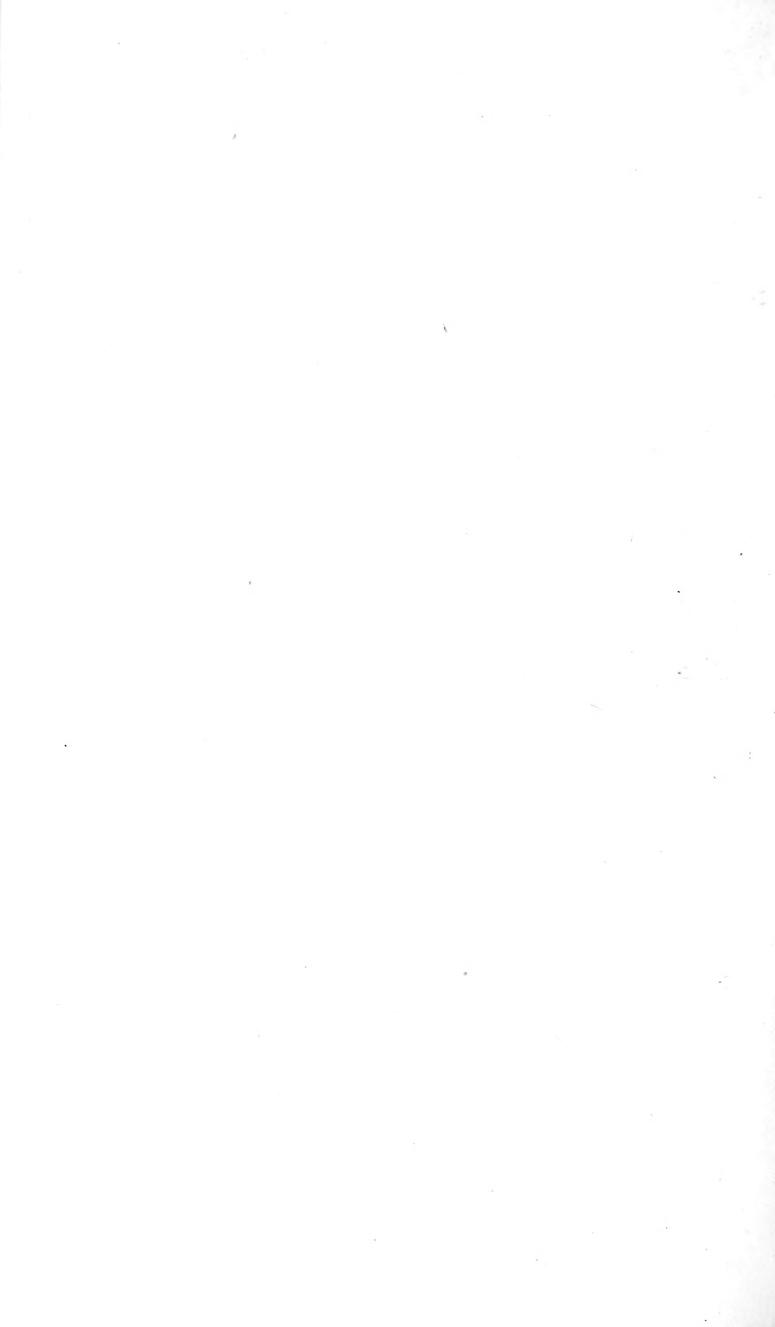


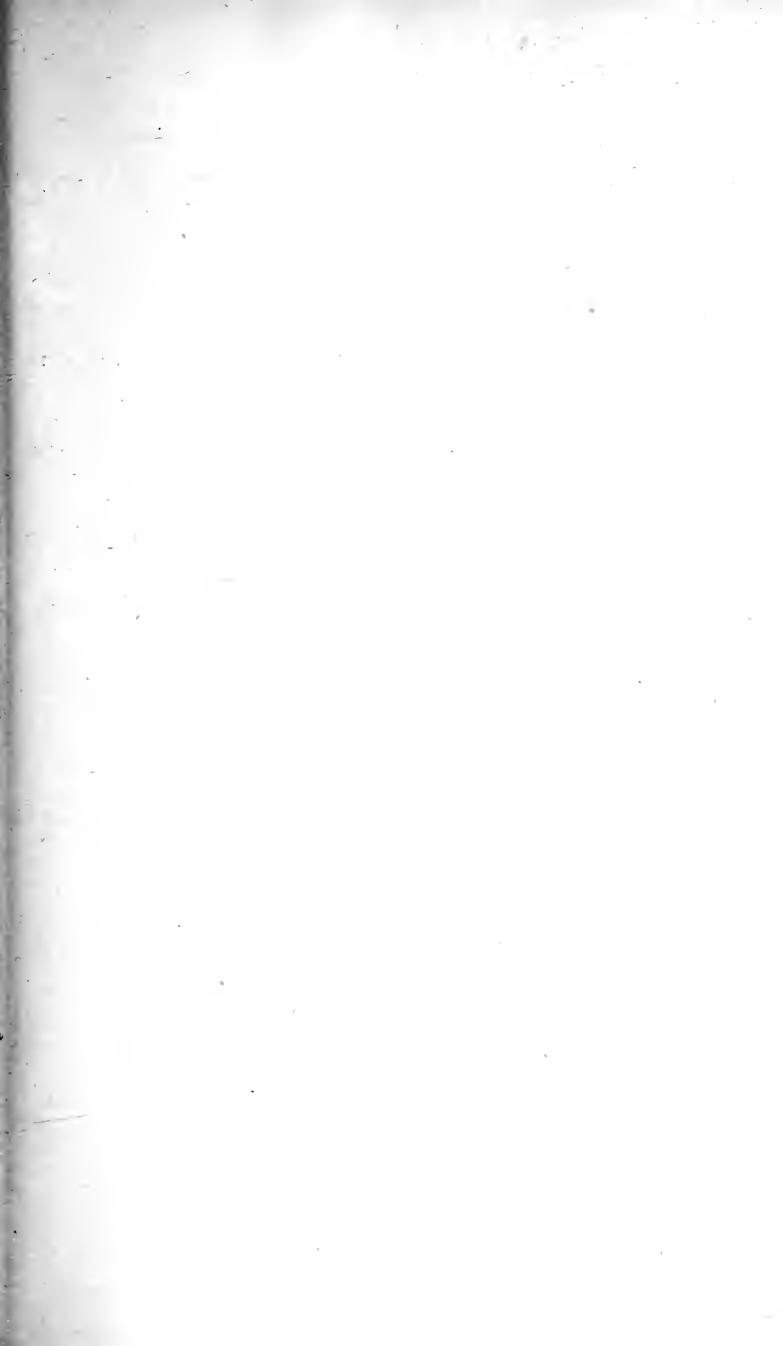
### PLATE LXXIII.

FIG.	
1.	Bowerbankia imbricata, p. 519; erect form.
2.	——————————————————————————————————————
3.	Vesicularia spinosa, p. 513; nat. size.
4.	, a fully developed branch, with the spinous extremities.
5, 6.	————, growing branches, with blunt extremities.
7.	and the mode in which the zoœcia are connected with it.



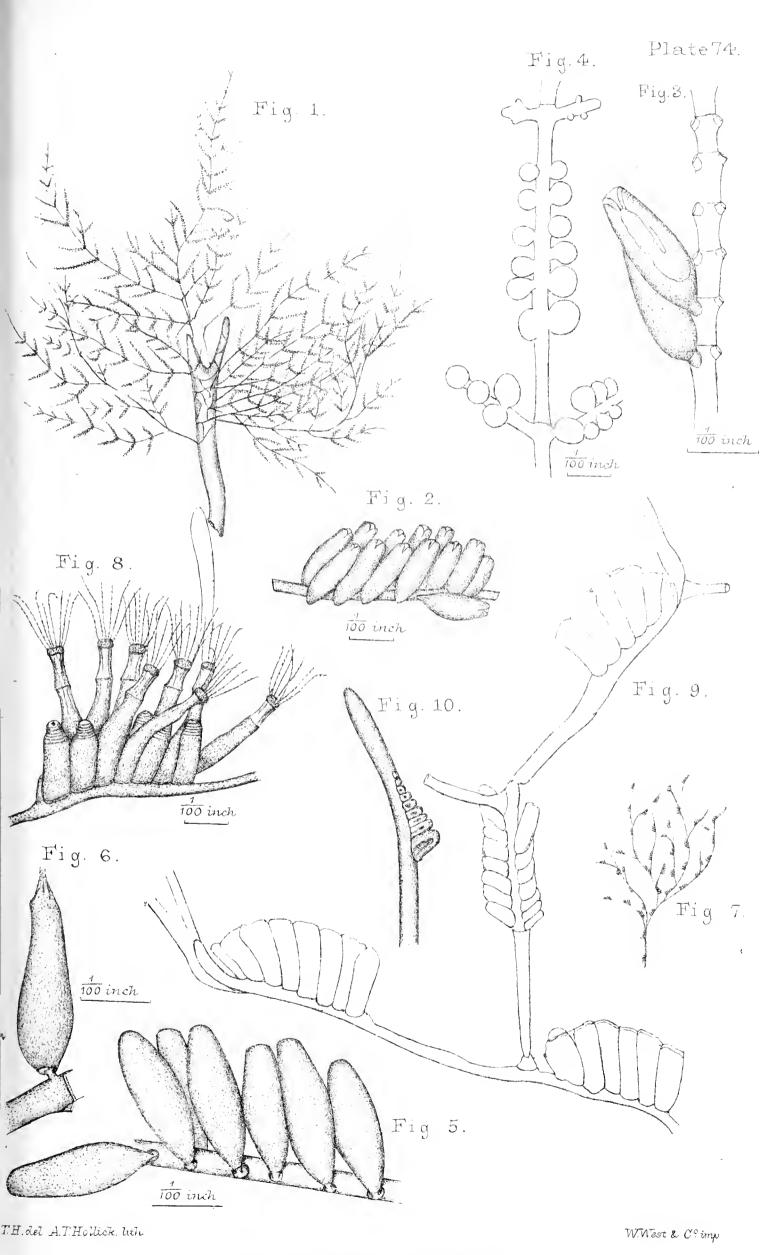
London, John Van Voorst, MDCCCLXXIX





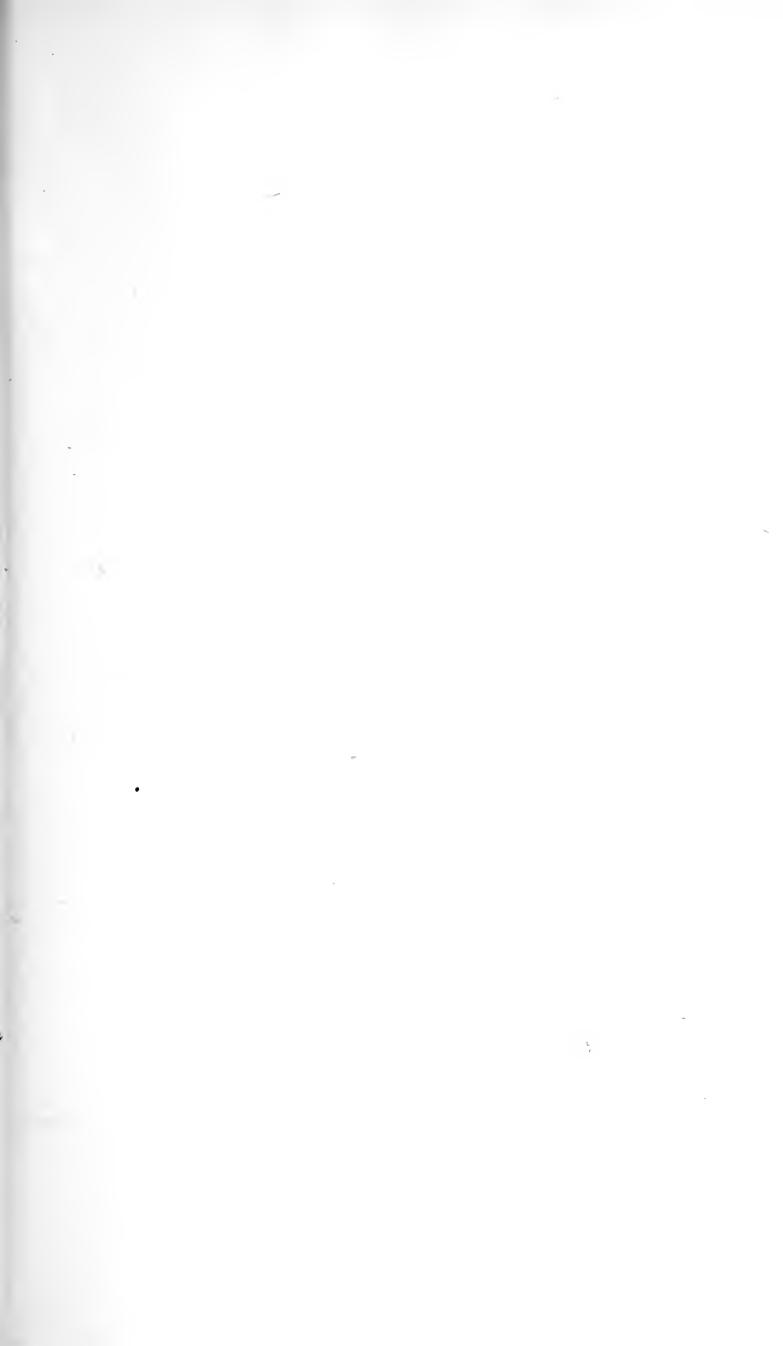
# , PLATE LXXIV.

FIG.	
1.	Mimosella gracilis, p. 556; nat. size.
2.	, portion of a pinna, showing the double line of cells; a single zoœcium thrown back.
3.	————, stem, showing the internodes and the tubular projections to which the cells are jointed.
4.	——————————————————————————————————————
5, 6.	——————————————————————————————————————
7.	Amathia lendigera, p. 516; nat. size.
8.	———, one of the sets of cells, with the polypides expanded.
9.	, portion of zoarium.
10.	, extremity of branch, with cells budding.



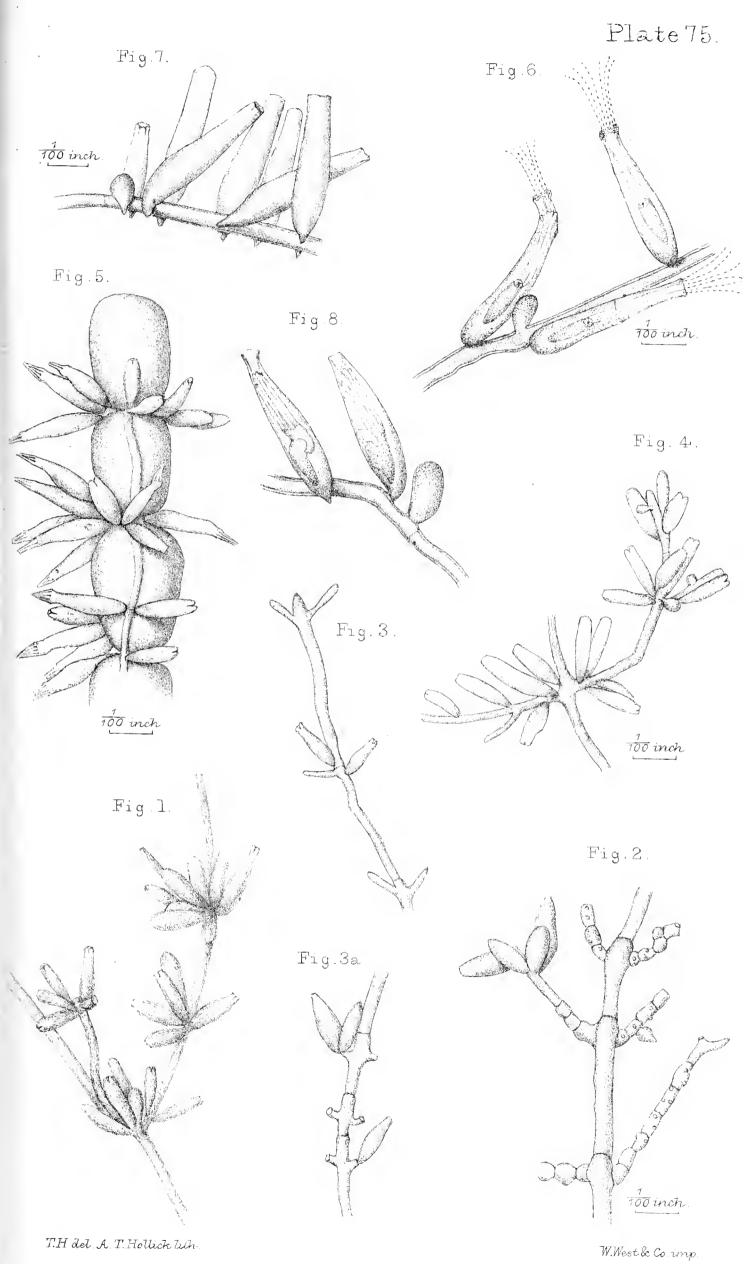
London, John Van Voorst, MDCCCLXXIX

ı , 

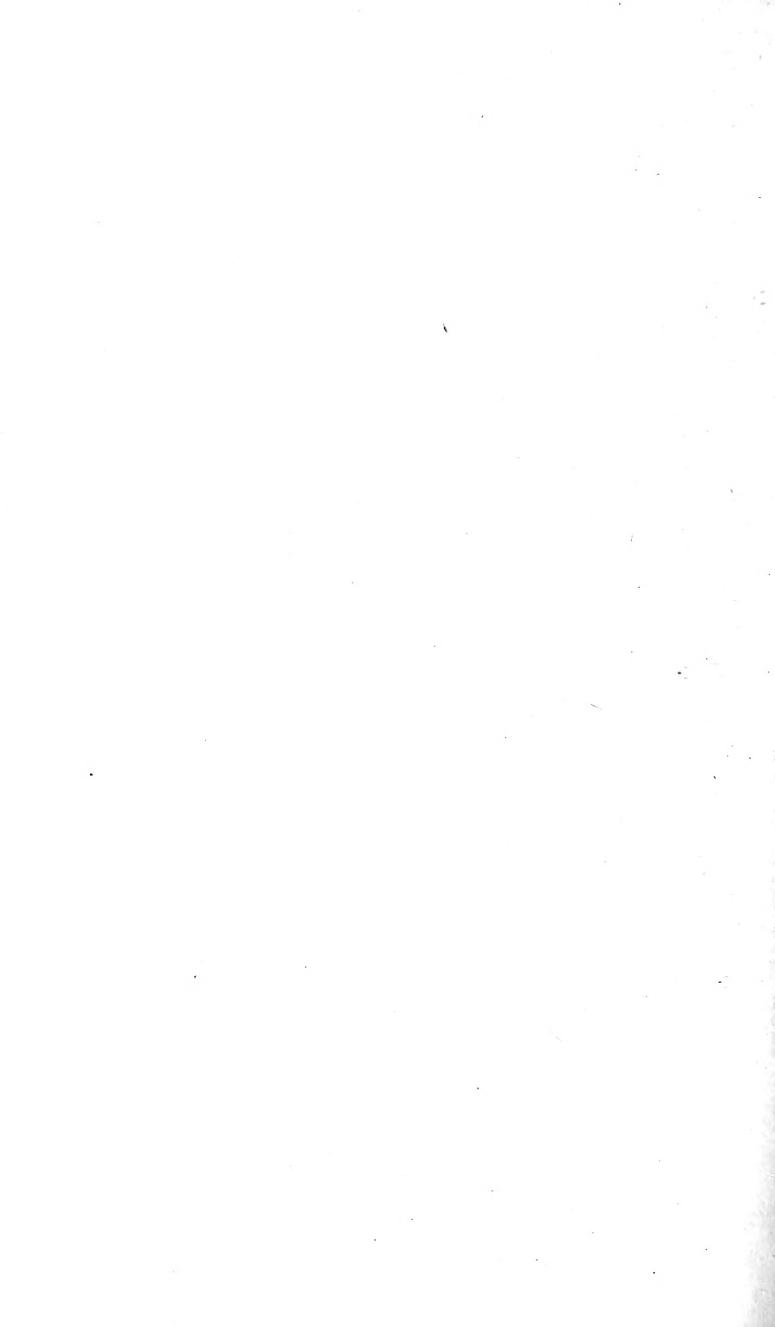


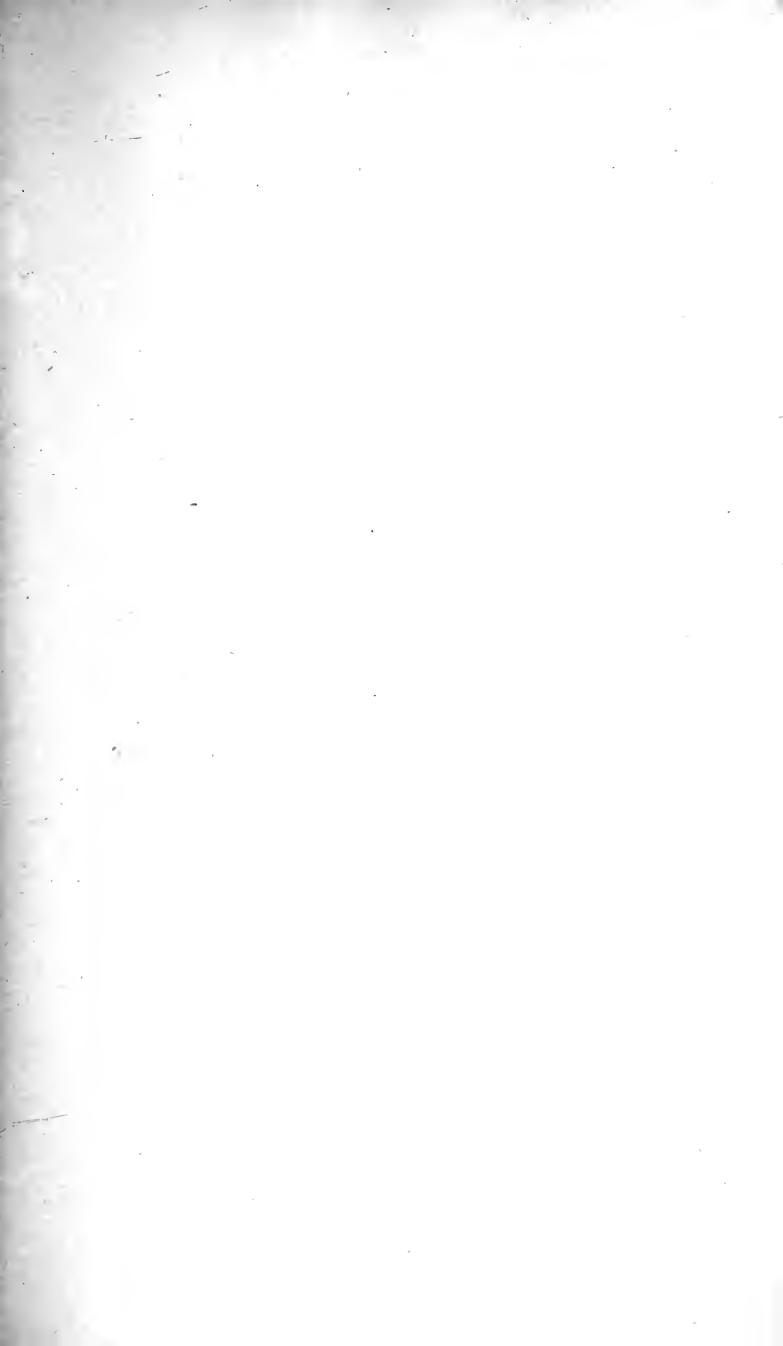
## PLATE LXXV.

гіс. 1–4.	Valkeria uva, erect form (cuscuta), p. 551.
5.	——, repent form, on Corallina.
6.	Bowerbankia gracillima, p. 525.
7.	Bowerbankia caudata, p. 521; showing the biseria arrangement of the zoœcia and the caudate extremity.
8.	



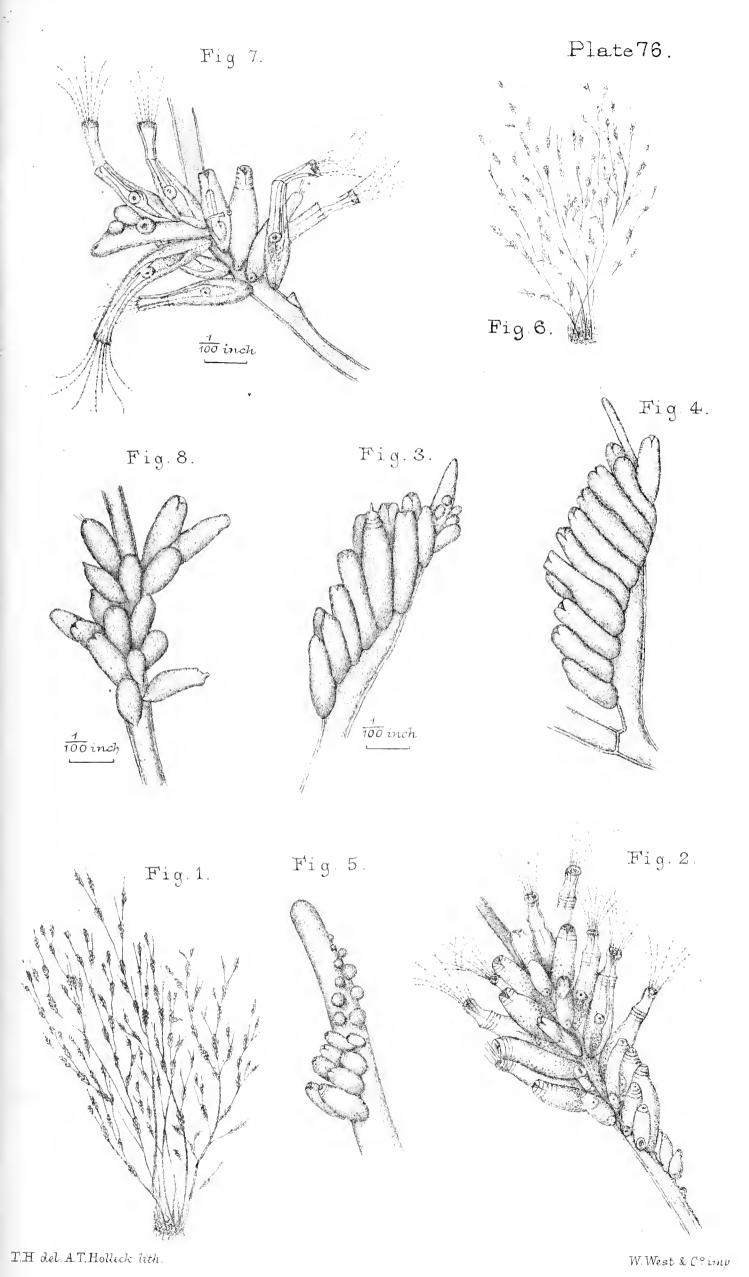
London: John Van Voorst, MDCCCLXXIX



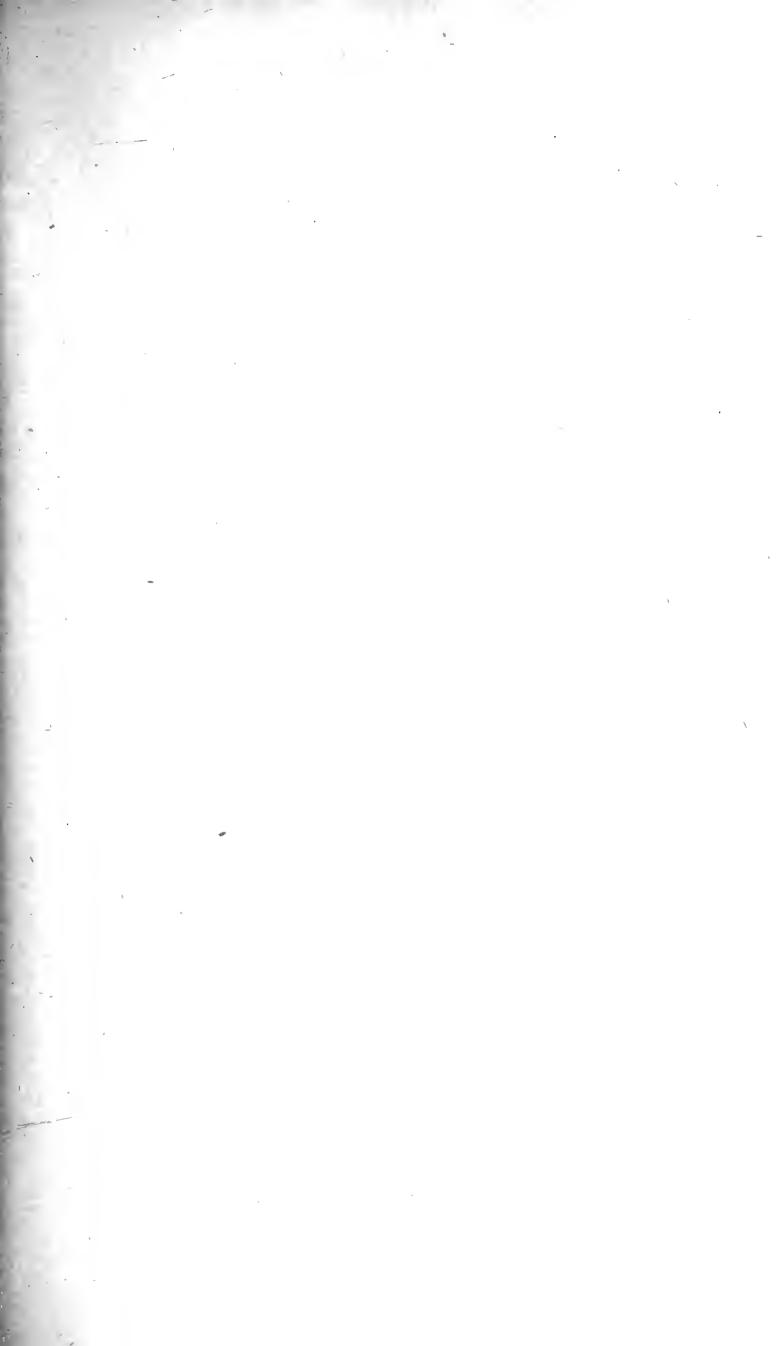


# PLATE LXXVI.

	FIG.	•
		Bowerbankia pustulosa, p. 522: nat. size.
	2.	, group of cells, with polypides expanded.
3	-5.	——————————————————————————————————————
	6.	Bowerbankia citrina, p. 524; nat. size.
	7.	, group of cells, with polypides expanded.
	8.	, ditto, showing its comparatively small size.



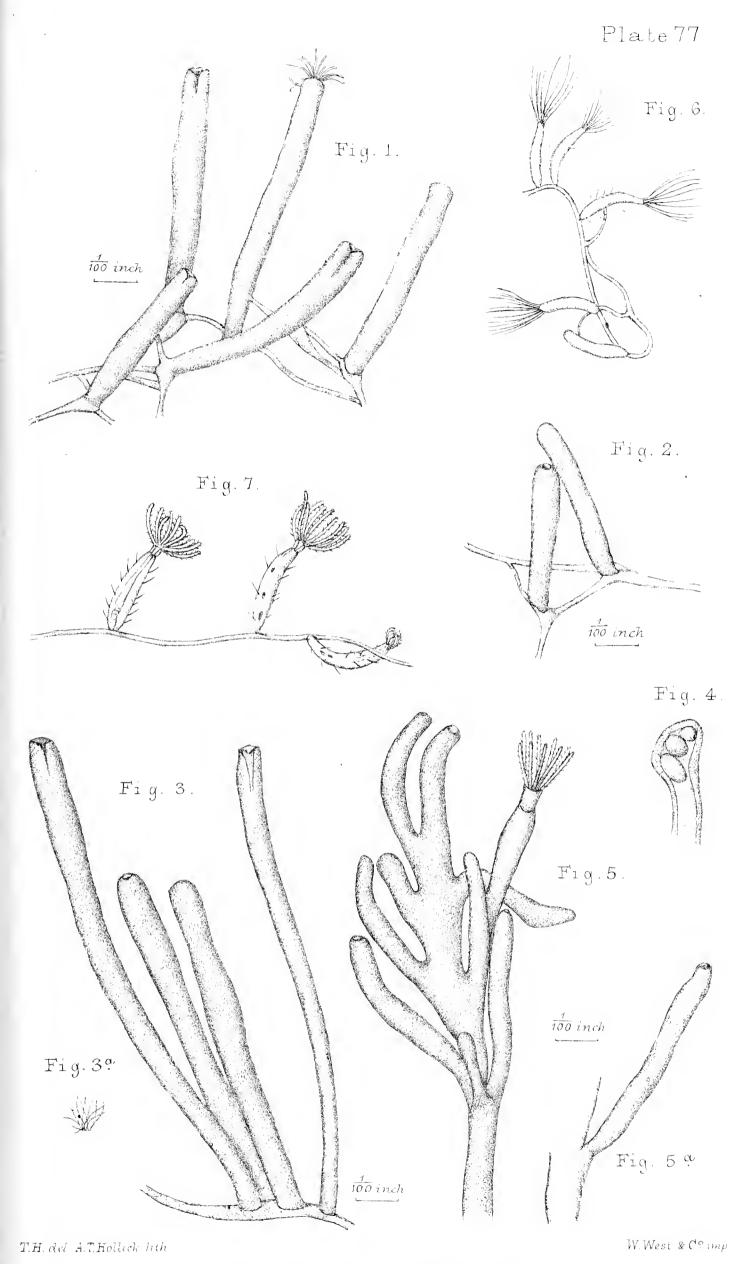
. •



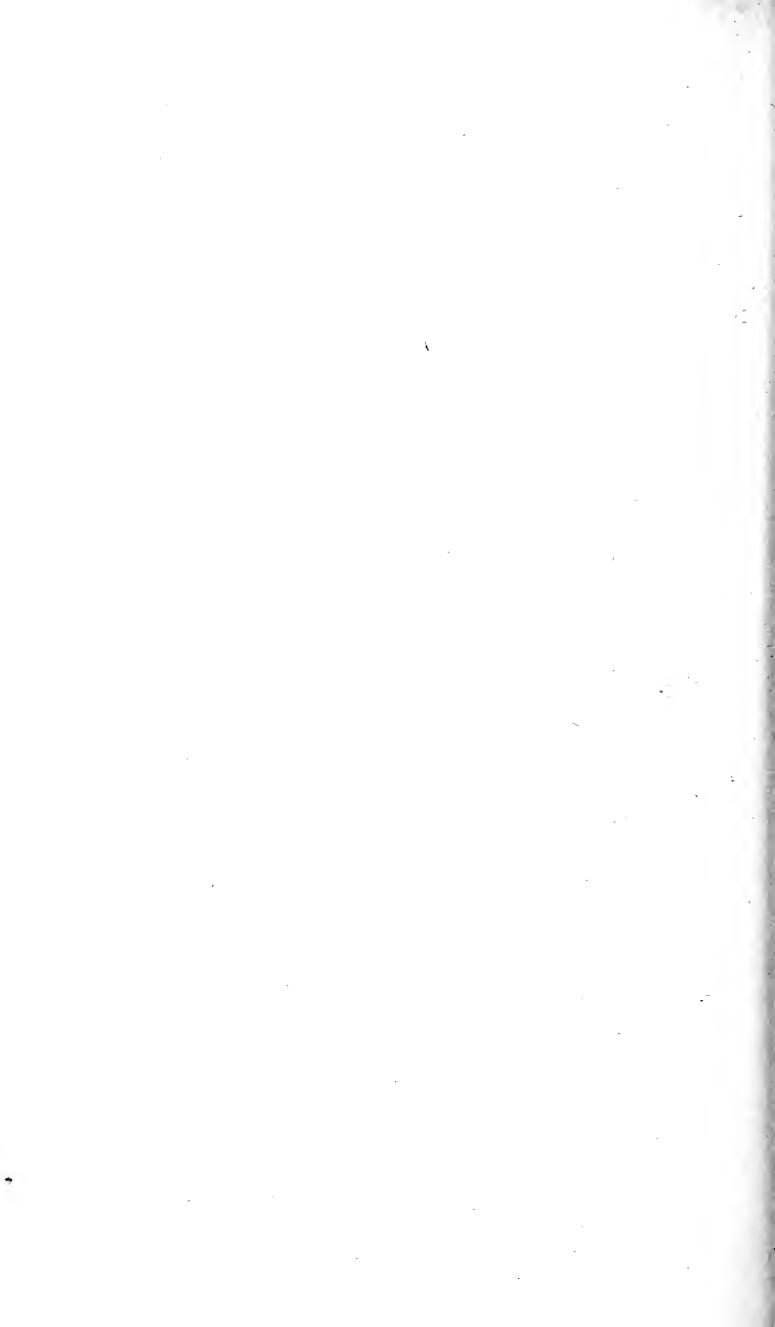
#### PLATE LXXVII.

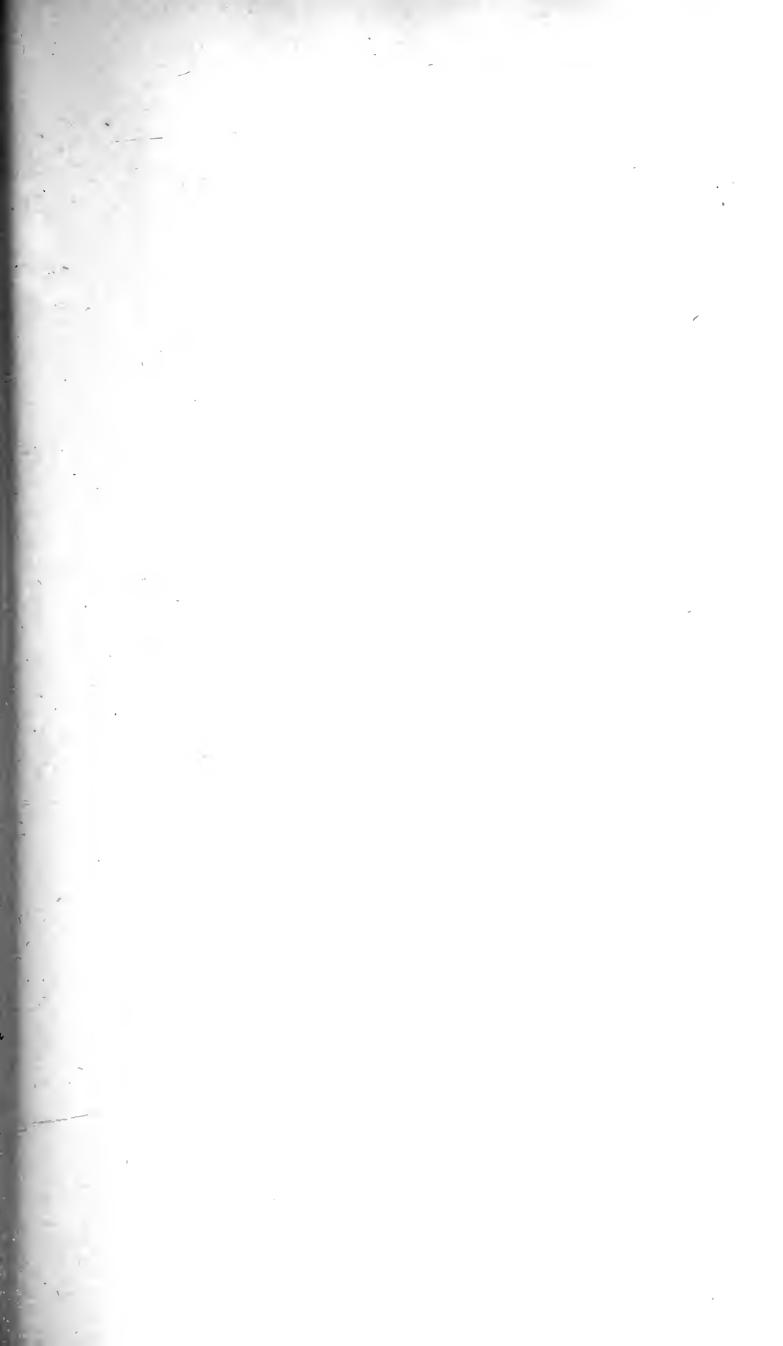
FIG.

- 1, 2. Cylindræcium dilatatum, p. 536. See Plate LXXIX.
- 3, 3 a. Cylindrecium giganteum, p. 535.
  - 4. ————, showing the ova collected at the top of the zoœcium previous to escape.
- 5, 5 a. Anguinella palmata, p. 539.
  - 6. Avenella fusca, p. 527. After Dalyell.
  - 7. ———. After Wyville Thomson.



London: John Van Voorst MDCCCLXXIX.

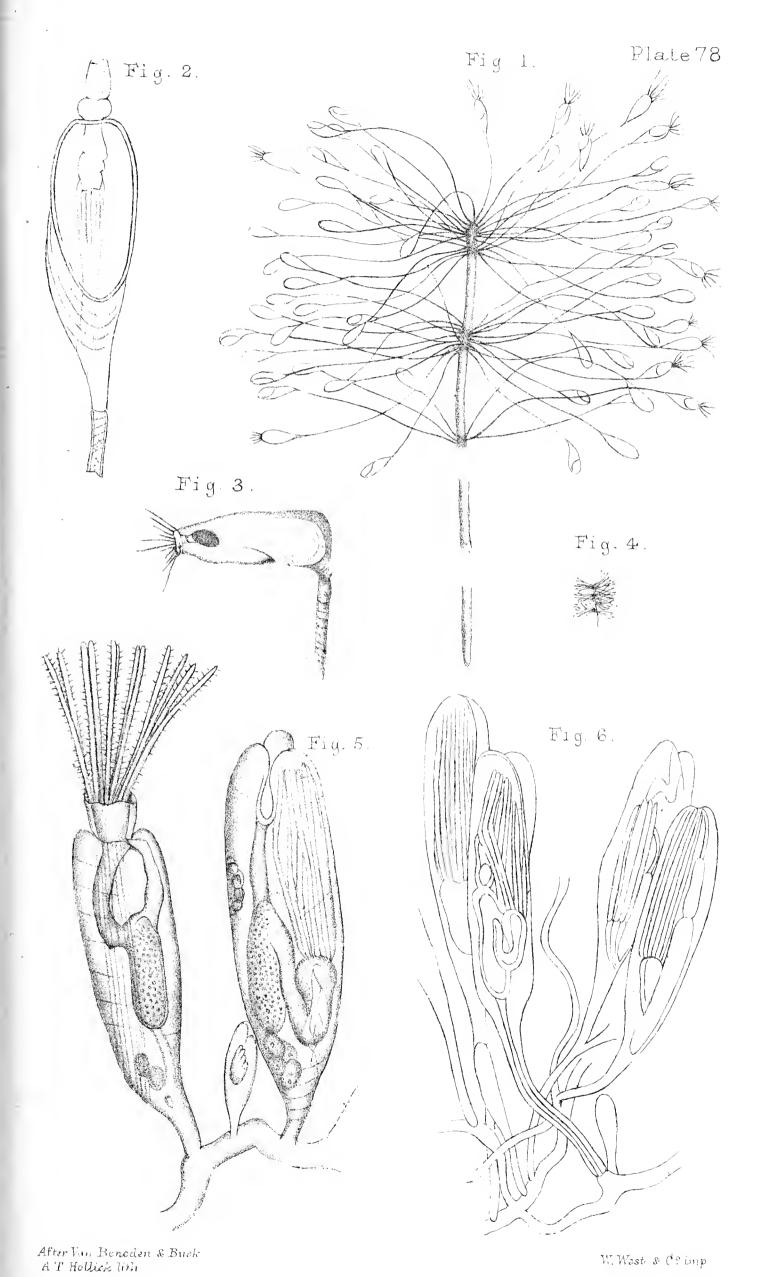




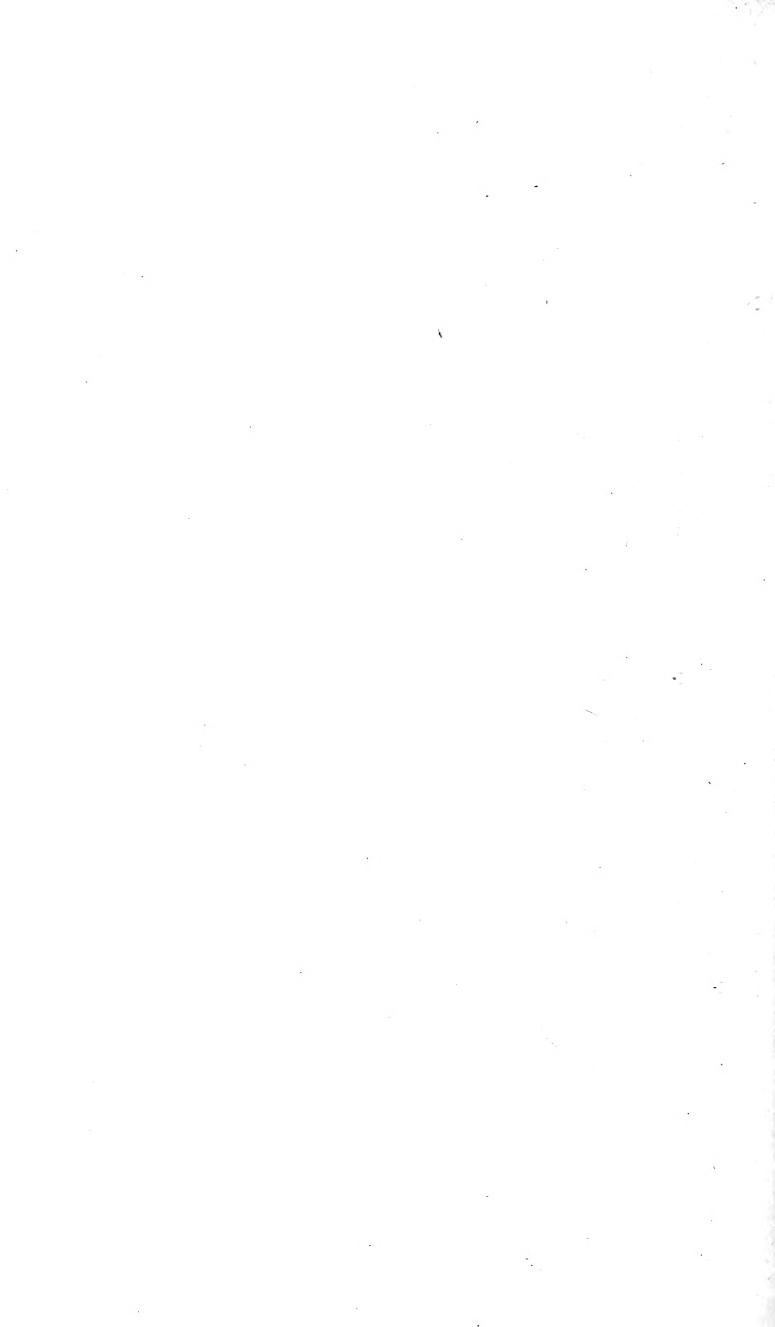
#### PLATE LXXVIII.

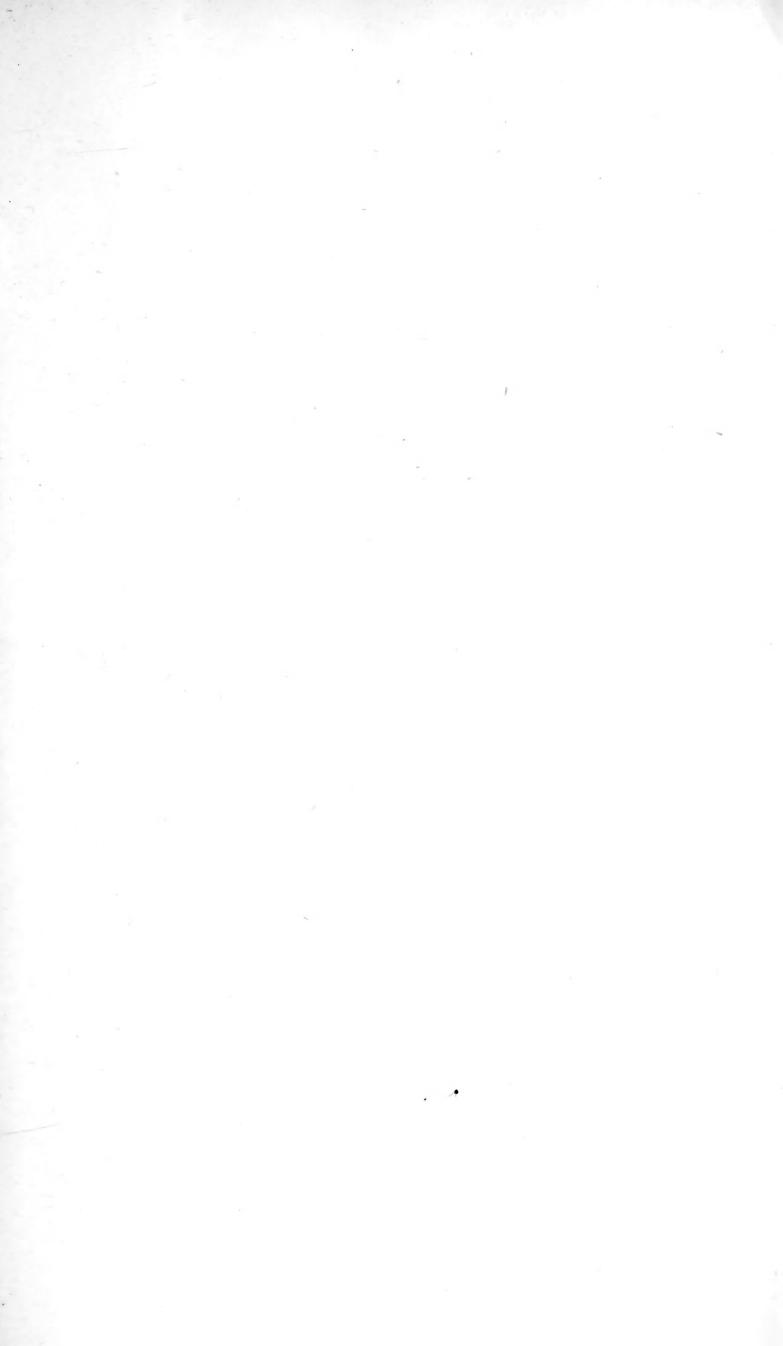
HIPPURARIA EGERTONI, p. 549; portion of the erect stem, with whorls of cells.
 —, a zoœcium, much enlarged, showing the ventral aperture.
 —, showing the degree in which the cell can be bent. After a sketch by Sir P. Egerton.
 —, nat. size \*.
 FARRELLA REPENS, p. 529. After Van Beneden.
 —, form elongata. Ditto.

\* Figs. 1, 2, and 4 are after Busk.



London: John Van Voorst, MDCCCLXXIX.

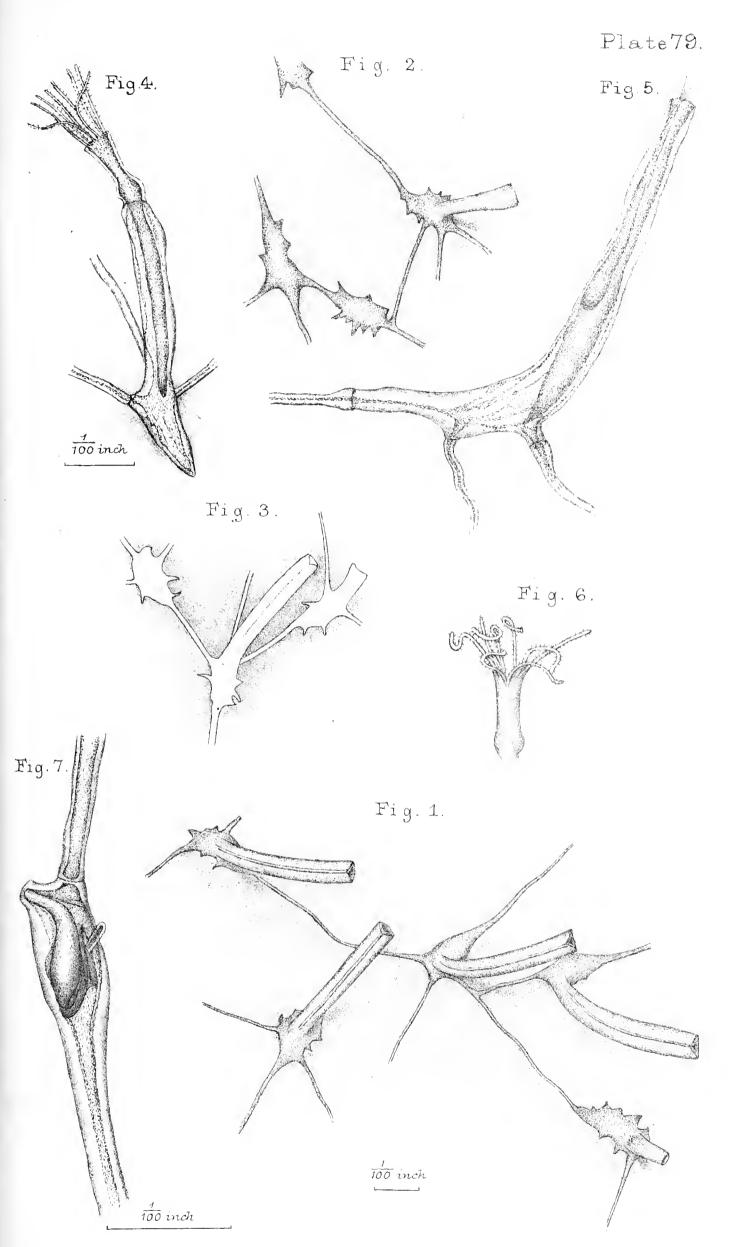




#### PLATE LXXIX.

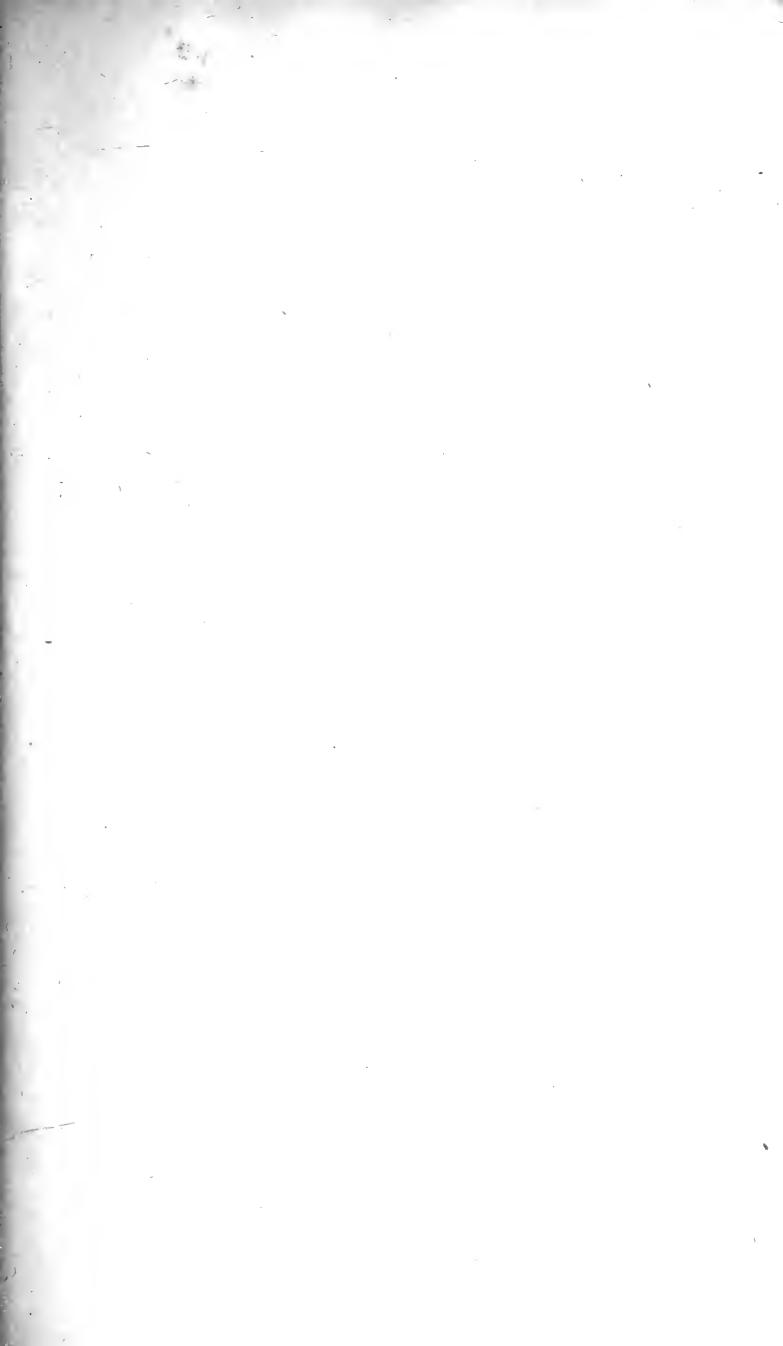
FIG.

- 1-3. Cylindrecium dilatatum, p. 536; from specimens developed on shell, with a large spinous dilatation at the base of the zoecium.
- 4, 5. VICTORELLA PAVIDA, p. 561; showing the expanded and decumbent base of the cell, and the Campylonemidan arrangement of the tentacles.
  - 6. ——, the tentacular wreath.



T.H. del. A.T. Hollick lith.

W. West & C? imp.



### PLATE LXXX.

1, 1 a. Valkeria tremula, p. 554.
 2. — , polypide expanded, and cells showing the setose operculum.
 3. Triticella pedicellata, p. 547.

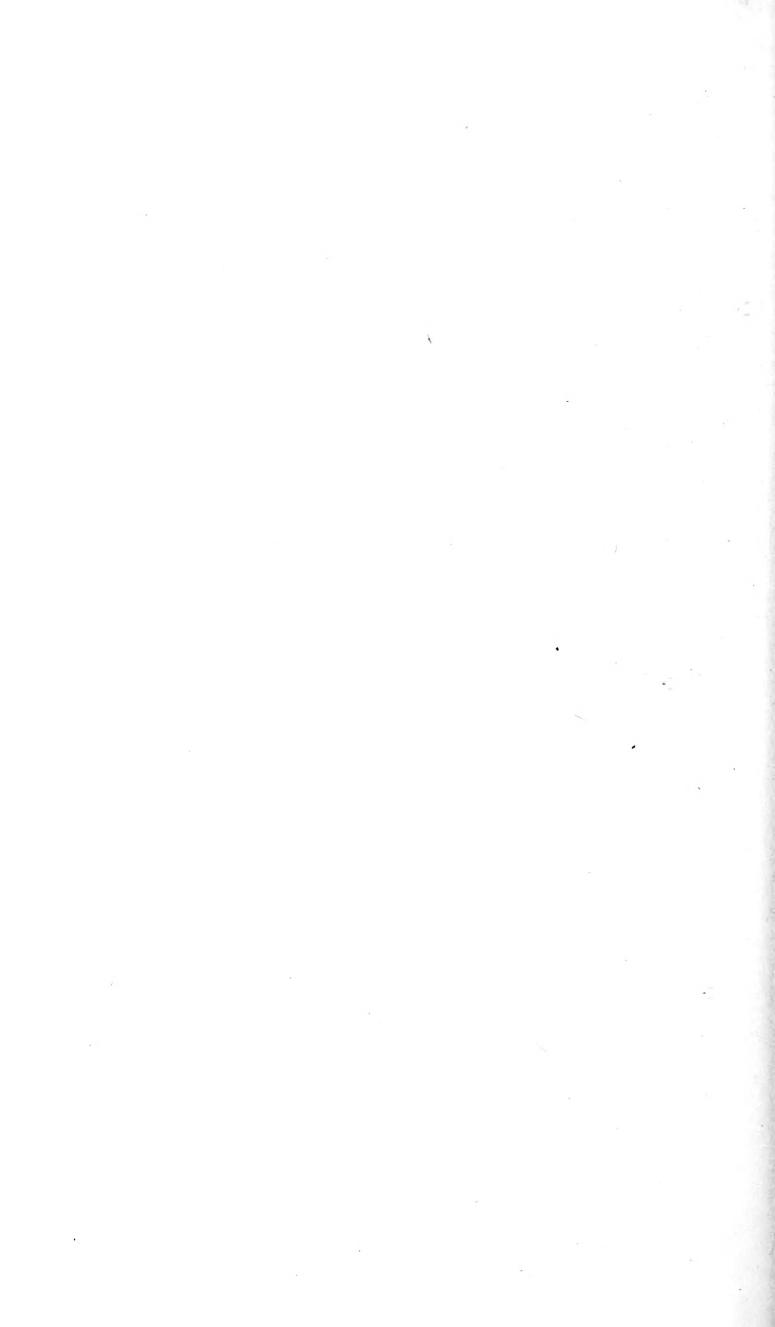
- 4. ———, zoœcium, showing the ventral side and the aperture.
- 5. ———, zoœcium, with polypide expanded.
  After Alder.
- 6. Triticella Korenii, p. 545. After G. O. Sars. See Plate XLV. figs. 8-10.
- 7. Triticella flava, p. 543. After Dalyell.
- 8. Cylindræcium pusillum, p. 537\*.
- 9. ? Cylindræcium pusillum, dwarf var., p. 538; or possibly a distinct species.

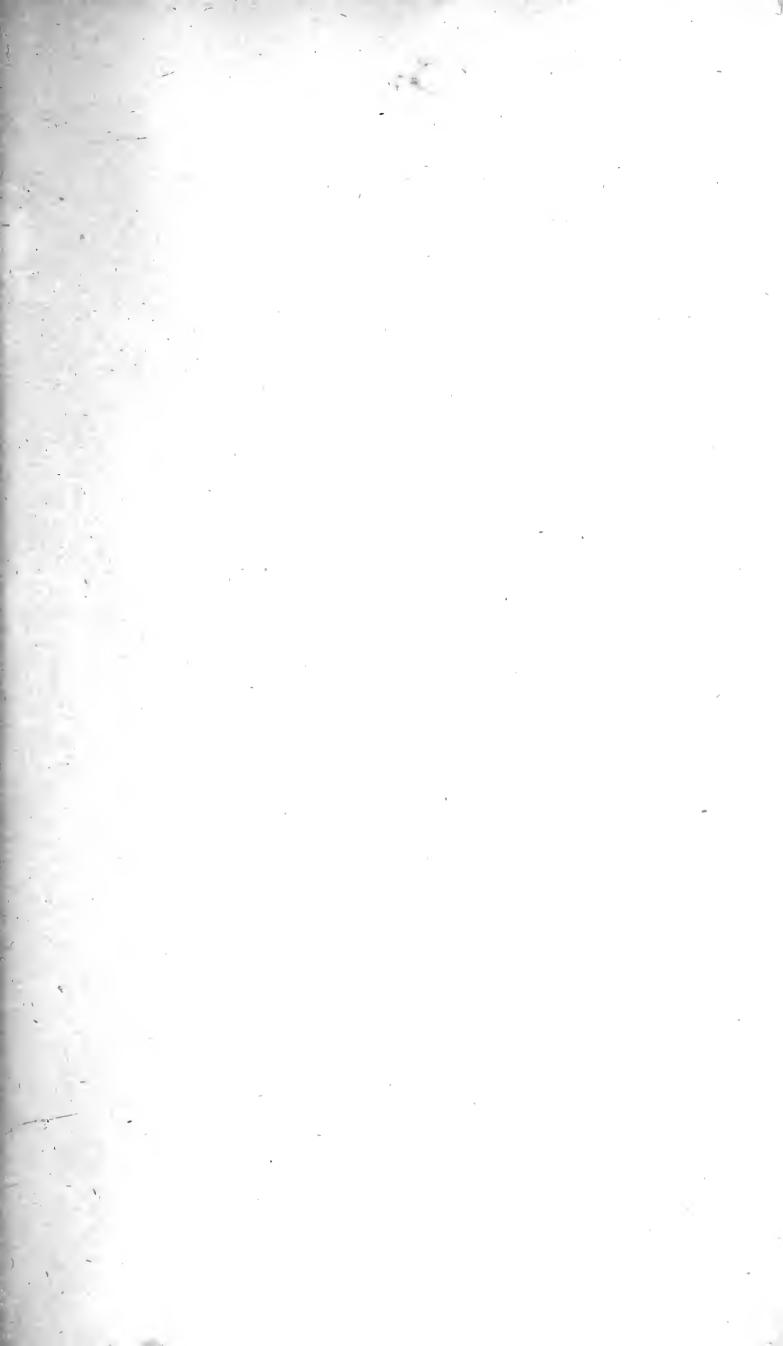
<sup>\*</sup> This figure is defective in not showing the expansion at the base of the zoœcia. See woodcut, p. 538.

London: John Van Voorst, MDCCCLXXIX.

W. West & Coimp.

T.H. del. A.T. Hollick lith



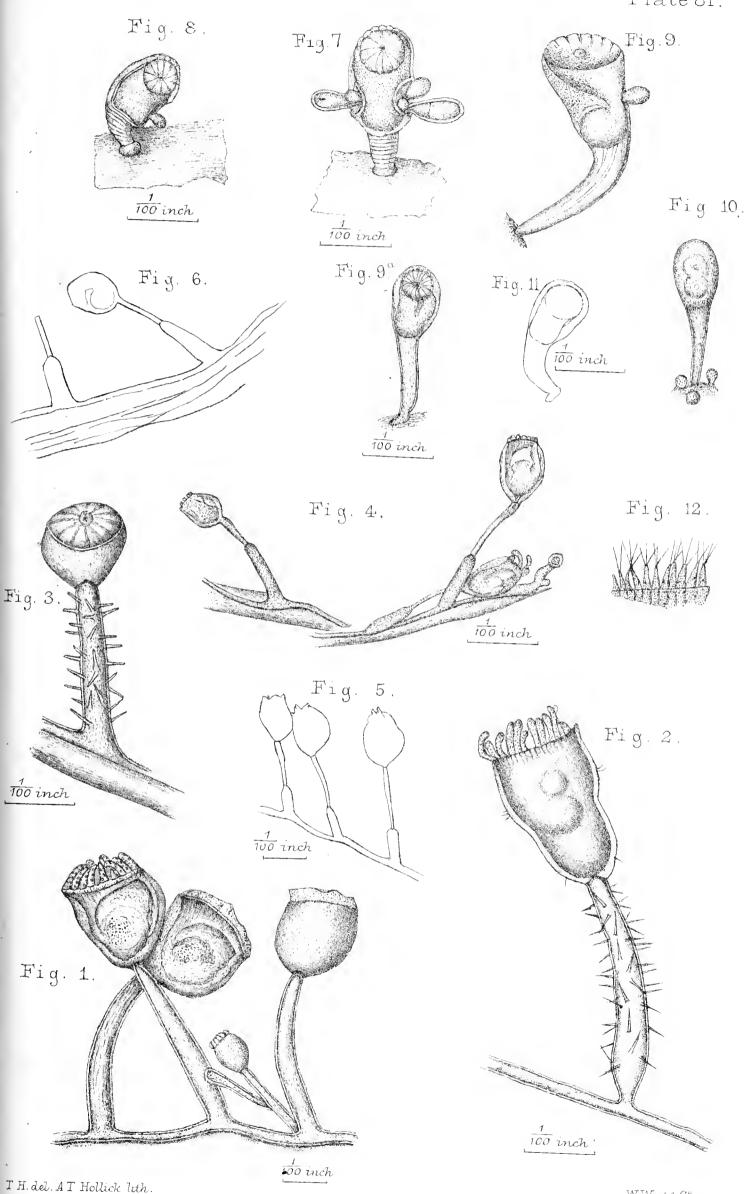


#### PLATE LXXXI.

FIG.

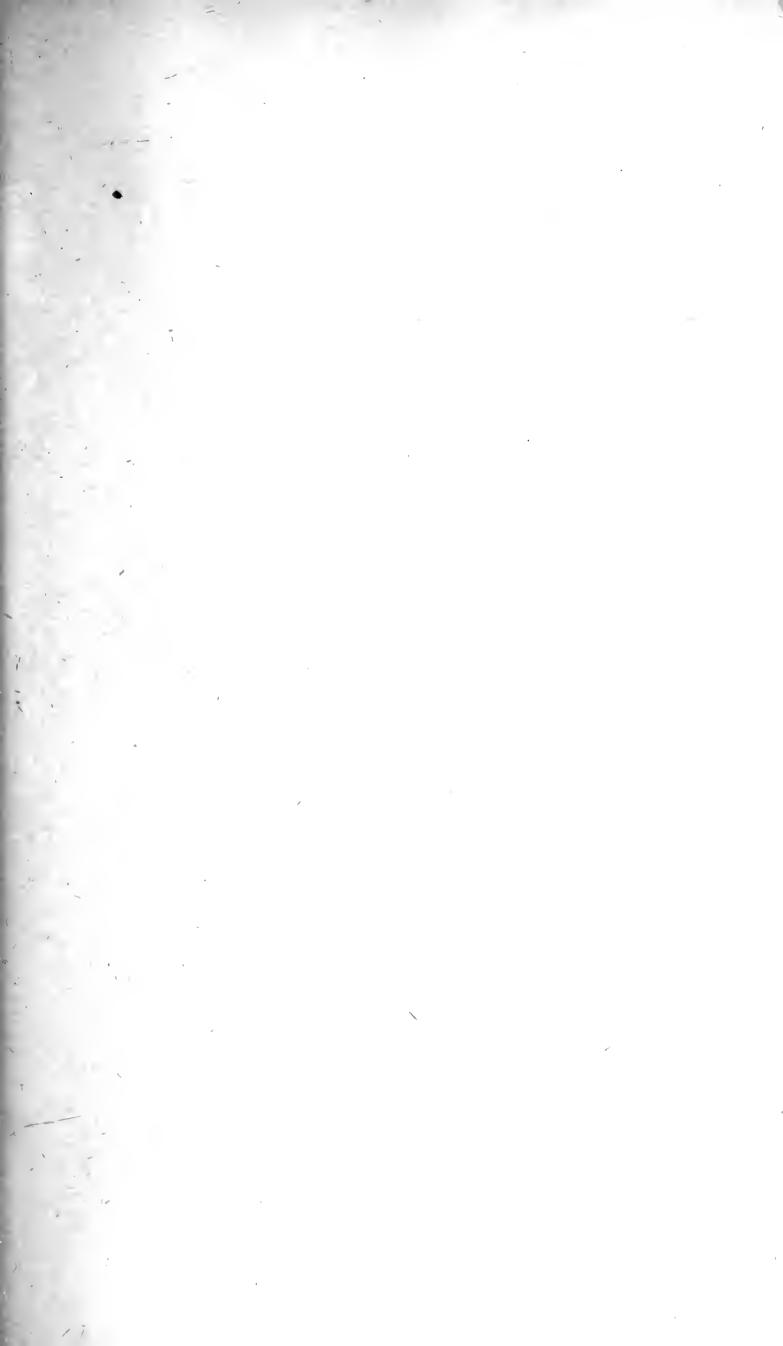
- 1. Pedicellina cernua, var. glabra, p. 565.
- 2. ——, elongated form.
- 3. ——, showing the tentacles folded in.
- 4-6. Pedicellina gracilis, p. 570.
- 7, 8. Loxosoma singulare, p. 573.
- 9-11. Loxosoma claviforme, p. 575.
  - 12. Fragment of the skin of *Hermione*, with individuals of the last species *in situ*, nat. size.

W West & Counp



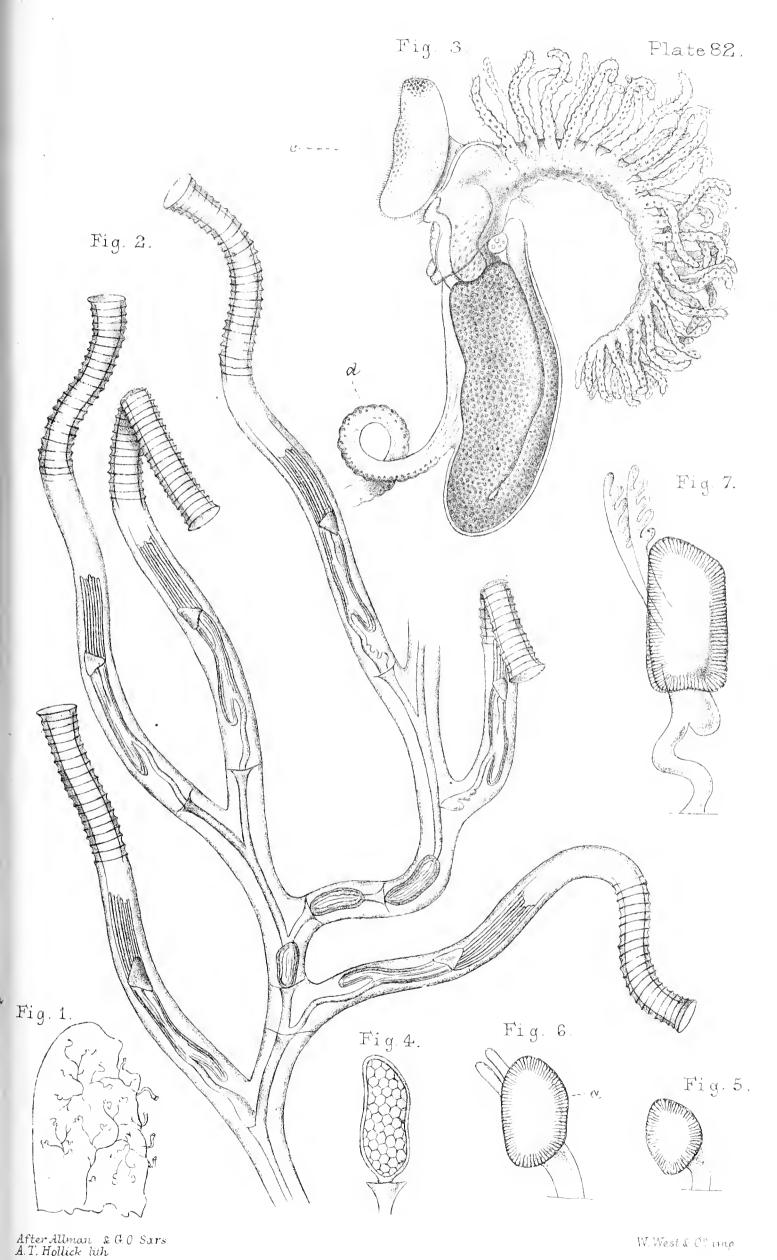
London John Van Voorst MDCCCLXXIX





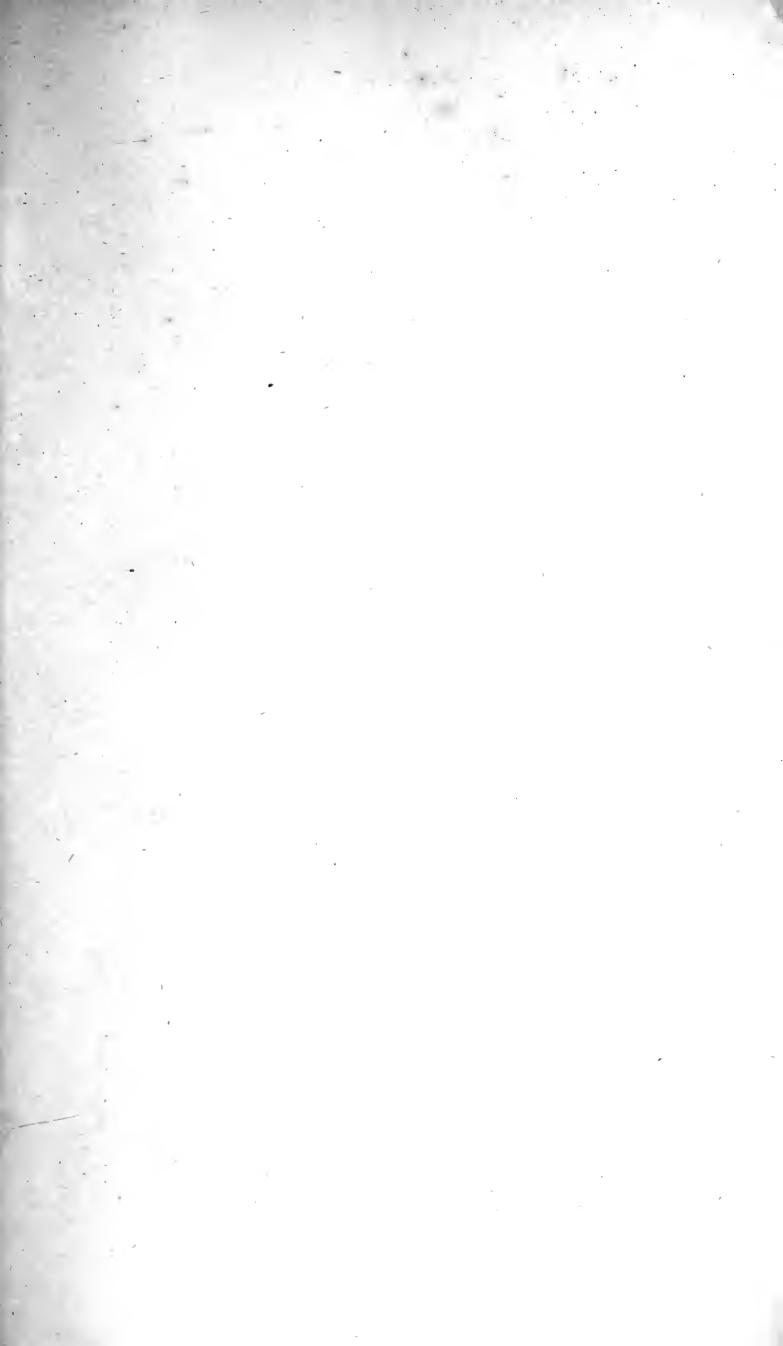
# PLATE LXXXII.

FIG.	
1. Rhabdopleura Normani, p. 580; nat. size.	
2. ———, portion of the zoarium, with the tained polypides, very much enlarged.	con-
3. The polypide of R. MIRABILIS, Sars, removed from cell: c, the "buccal shield;" d, the cord by w the polypide is attached to the axial rod.	
4. R. Normani, statoblast.	
5. ————, polypide bud in a very early stage.	
6. ————, ditto more advanced: a, one of the fleshy plates between which the developing pide is included.	
7. ————, ditto in a still more advanced stage.	•
[All the above figures are after Allman, with the ception of fig. 3, which is copied from G. O. Sars.]	ex-



London: John Van Voorst, MDCCCLXXIX.

			•				
•				·			
				,	`		
						,	
			•				-
			•				
	٨			•			•
				•			
						1	
						,	
							•
				•			
		•		·			
			•				
					-		



### PLATE LXXXIII.\*

## Larval forms.

FIG.

- 1. Loxosoma singulare; larva in the act of swimming.
- 2. Tubulipora flabellaris (? fimbria of the present work); general appearance of the free larva.
- 3. Algyonidium mytili; free larva, front view.
- 4. MICROPORELLA CILIATA; free larva, viewed in profile.
- 5. Cellepora pumicosa; free larva.
- 6. Bugula flabellata; free larva.
- 7. Eucratea Chelata; free larva, viewed in profile.
- 8. Valkeria uva, form cuscuta; free larva, front view.
- 9. Membranipora pilosa; larva (Cyphonautes compressus) immediately after liberation.
- 10. Flustrella hispida; free larva.

# Lettering of the Figures.

S. Oral surface.

I. Aboral surface.

C. Ciliary corona.

ph. Pharynx.

æ. Œsophagus.

R. Rectum.

est. Stomach.

o. Mouth of the gastrula.

ms. Oral mesoderm.

mi. Aboral mesoderm.

cc. Cavity of the body.

CD. Digestive cavity.
oc. Eye-speck.
ft. Flagellum.

pl. Ciliary plume.

vt. Sucker.

V. Adhesive organ.

sb. Furrow separating the aboral

mass and the surface bearing the ciliary corona.

si. Furrow separating the sucker and the lower portion of the aboral surface.

RM. Maximum point of the aboral

RV. Border of the sucker.

r. Great retractors.

va. Tactile organ (in Loxosoma).

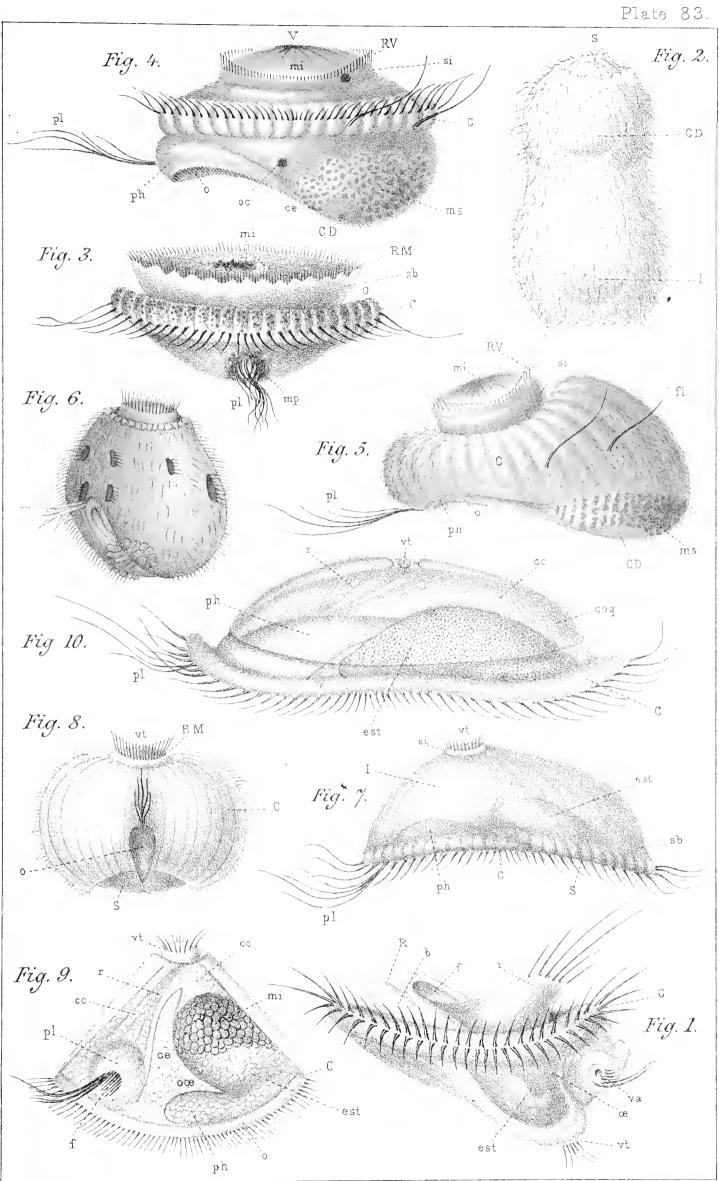
mp. Pigment of pharynx (in Alcyonidium).

ce. Obscure portion of the bodycavity between the two branches of the stomach.

Lateral diverticulum of the foregoing.

coq. Shell (in Cyphonautes).

<sup>\*</sup> The figures in this Plate are all copied, by the author's kind permission, from Dr. J. Barrois's admirable work on the Embryology of the Polyzoa, with the exception of fig. 6, which is after Nitsche.





# Books of uniform character with Mr. Hincks's 'History of the Marine Polyzoa.'

#### ON THE NATURAL HISTORY OF THE BRITISH ISLES.

This Series of Works is Illustrated by many Hundred Engravings; every Species has been drawn and Engraved under the immediate inspection of the Authors; the best Artists have been employed, and no care or expense has been spared. Each Work of the Series is sold separately, as enumerated below.

- QUADRUPEDS. By Professor Bell. Second Edition, revised by the Author, R. F. Tomes, and E. R. Alston. £1 6s.
- BIRDS. By Mr. Yarrell. Fourth Edition. Edited by Professor Newton, F.R.S. In Parts at 2s. 6d. Twelve published.
- COLOURED ILLUSTRATIONS OF THE EGGS OF BIRDS. By Mr. Hewitson. Third Edition. 2 Vols., £4 14s. 6d.
- REPTILES. By Professor Bell. Second Edition. 12s.
- FISHES. By Mr. YARRELL. Third Edition. Edited by Sir John Richardson. 2 Vols., £3 3s.
- MOLLUSCOUS ANIMALS AND THEIR SHELLS. By Professor Edward Forbes and Mr. Hanley. 4 Vols. 8vo, £6 10s. Royal 8vo, Coloured, £13.
- STALK-EYED CRUSTACEA. By Professor Bell. 8vo, £1 5s.

SESSILE-EYED CRUSTACEA. By Mr. Spence Bate and Professor Westwood. 2 Vols., £3.

- STARFISHES. By Professor Edward Forbes. 15s.
- ZOOPHYTES. By Dr. Johnston. Second Edition. 2 Vols., £2 2s.
- HYDROID ZOOPHYTES. By the Rev. T. HINCKS. 2 Vols., £2 2s.
- FOREST TREES. By Mr. Selby. (Svo. Out of print.) Large paper copies, £2 16s.
- FOSSIL MAMMALS AND BIRDS. By Professor OWEN. £1 11s. 6d.

A few copies have also been printed on Large Paper.

# OTHER BOOKS ON MARINE NATURAL HISTORY also published by Mr. VAN VOORST.

GENERA OF RECENT MOLLUSCA, arranged according to their Organization. By Henry and Arthur Adams. This work contains a description, and a figure, engraved on steel, of each genus, and an enumeration of all the species. 3 Vols. 8vo, £4 10s.; or Royal 8vo, with the Plates Coloured, £9.

- BRITISH CONCHOLOGY; or, an Account of the Mollusca which now inhabit the British Isles and the surrounding Seas; with particulars of their habits and distribution. By J. GWYN JEFFREYS, F.R.S., F.G.S. Vols. I. to IV., post 8vo, 12s. each. Vol. V., containing Coloured Figures of all the Species, £2 17s., or Plain, £1 12s.
- INTRODUCTION TO CONCHOLOGY; or, Elements of the Natural History of Molluscous Animals. By George Johnston, M.D., LL.D., F.R.C.S.E. 8vo, 102 Illustrations, £1 1s.
- A HISTORY OF THE BRITISH SEA-ANEMONES AND MADREPORES. With Coloured Figures of all the Species. By Philip Henry Gosse, F.R.S. 8vo, £1 1s.
- A MANUAL OF THE SEA ANEMONES COMMONLY FOUND ON THE ENGLISH COAST. By the Rev. G. Tugwell. Post 8vo, Coloured Plates, 7s. 6d.
- MANUAL OF MARINE ZOOLOGY OF THE BRITISH ISLES. By P. H. Gosse, F.R.S. Parts 1 & 2, fcp. 8vo, containing 674 woodcuts, 7s. 6d. each.
- THE AQUARIAN NATURALIST: a Manual for the Seaside.

  By Professor T. Rymer Jones, F.R.S. Post 8vo, with
  8 Coloured Plates, 18s.
- THE SEASIDE BOOK: an Introduction to the Natural History of the British Coasts. By W. H. Harvey, M.D., M.R.I.A., &c. With a Chapter on Fish and Fish Diet, by Mr. Yarrell. Fourth Edition. Fcp. 8vo, 83 Woodcut Illustrations, 5s.
- THE AQUARIUM: an Unveiling of the Wonders of the Deep Sea. By P. H. Gosse, F.R.S. Post Svo, Second Edition (without the Plates), 7s. 6d.
- TENBY: A SEASIDE HOLIDAY. By P. H. Gosse, F.R.S. Post 8vo, with 24 Coloured Plates, £1 1s.
- MANUAL OF THE BRITISH MARINE ALGÆ, containing Generic and Specific Descriptions of all the known British Species of Seaweeds, with Plates to illustrate all the Genera. By Professor W. H. Harvey. 8vo, £1 1s. Coloured Copies, £1 11s. 6d.





	•			
*				
			,	
				•
24				
pr.				
		,		•
- 4				
-				
•				





